

The actual and preferred Behavior of coach From View Point of Football Players in West Bank

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بإشراف الأستاذ الدكتور

نبيل محمد شمروخ

2013

قرار لجنة المُناقشة

سلوك المدرب الفعلي والمفضل من وجهة نظر لاعبي كرة القدم في الضفة الغربية

إعداد

أنس عبد الجواد

قُدمت هذه الرسالة استكمالاً لمتطلبات الحصول على درجة الماجستير في كلية التربية الرياضية تخصص التربية الرياضية

في جامعة اليرموك، إربد، الأردن

وافــــق عليهـــــا

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2013 / 3 / 26

الإهـــداء

الشكر والتقدير

[illegible]

[illegible]

[illegible]	[illegible]	[illegible]
32	[illegible]	1
33	[illegible]	2
36	[illegible]	3
37	[illegible]	4
42	[illegible]	5
43	[illegible]	6
44	[illegible]	7
45	[illegible]	8
46	[illegible]	9
47	[illegible]	10
48	[illegible]	11
49	[illegible]	12
50	[illegible]	13
51	[illegible]	14
52	[illegible]	15

53	[illegible]	16
54	[illegible]	17
55	[illegible]	18
56	[illegible]	19
61	[illegible] (MANOVA) [illegible]	20
63	[illegible] (scheffe) [illegible]	21
64	[illegible] (scheffe) [illegible]	22
65	[illegible] (scheffe) [illegible]	23
66	[illegible] (ANOVA) [illegible]	24
67	[illegible] (scheffe) [illegible]	25

68	[illegible]	26
74	[illegible] (MANOVA) [illegible]	27
77	[illegible] (scheffe) [illegible]	28
77	[illegible] (scheffe) [illegible]	29
78	[illegible] (scheffe) [illegible]	30
79	[illegible] (ANOVA) [illegible]	31

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ƕΘẑƬǁǤ !ƽƥ	ƼΘǂDŽǁǤ DžǤNjǚƳ	üNjǫɯǁǤ !ƽƥ
106	Ɫdžnjdž!ƒ ýŏnjʅƙ Ɣƙǂ	1
108	Ɫŏ!ĂŬƒ ƓnjƙƧĂƮƕ ƗǈƓƕƙʅŬƒ	2
113	ƗŏƑƓnjǈ!ƒ ƓnjƙƧĂƮƕ ƗǈƓƕƙʅŬƒ	3
120	Džŏǂơƙ!ƒ Ɫǉɳ!	4

[illegible]

[illegible] 2013 [illegible]

[illegible] (269) [illegible]

[illegible] (8) [illegible]

(التدريب والإرشاد- التقدير الإجتماعي- التحفيز- العدالة- تسهيل الأداء الرياضي- السلوك التسلطي- المشاركة أو السلوك الديموقراطي- الإهتمام بالجوانب الصحية) [illegible] (5) [illegible]

[illegible] (ANOVA) [illegible] (MANOVA) [illegible] (scheffe) [illegible]

[illegible] (0.05 ≥ a) [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] (2002 [illegible]).

[illegible] (1994 [illegible]).

[illegible] (1987) [illegible]

[illegible] (2003 [illegible]) [illegible]

[illegible] (2002) [illegible]

[illegible] (2002 [illegible])

[illegible]

[illegible]

[illegible]

[illegible] (1977) Lenk [illegible] (1969) Hendry [illegible]

[illegible] (1989) (Pratt & Eitzen [illegible]

[illegible]

:ƕƨƐƥƋƐ ƕǂǀƪǅ

ƯùơǛ ǂǒƥǇ Ǎ ƩƧƒƥǆ ǇǆǂƷǨƤǆ!ƒ ƘƓƪƪƋǆ!ƒ Ǒ5 Ǆƥǀ!ƒ ǀƧǂ! ǂơƓ!ƒ ǂƪƧƓǆǆ ýǖƤ ǇǆǂƤ

Ǜ ƔƧƥùǆ!ƒ ǁǍǀùƪ ǇǄ ǂùǒơ ÜƔƧƥǆ!ƒ ǁǍǀƪ ǍơǇ ǇǑƕƵǖ!ƒ ƧƱǇ ƘƓǌƞǍ Ǒ5 ƻǖƘƤ ǁƓǇǋ ǇǄ

ƜƧƓƤ ǋǀǆƓƶƘǍ ƔƧƥǆ!ƒ ǁǍǀƪ Ǒ5 ƻǖƘƤ ǁƓǇǋ ǇǄ ƯơǛ ƓǆǂÜǇǑƕƵǖ!ƒ ýǑǆƞ ǇǆýǍƕ!ƓƕǏƯơǒ

.ƔƶǀǆǀƒƜƧƓƤ ǇǑƕƵǖ!ƓƕǋƘƓƿǖƵýǖƤǇǆƔǒƧƥƘ!ƒǍ ƘƓǒƧƓƕǆ!ƒ ƘƓƿǍǄ

ƔƧƥùǆ!ƒ ǋƪƧƓǆǒƓǆǇƵƻǀƘƤƘƓǂǍǀƪǇǍǀ ưƽǒǇǑƕƵǖ!ƒ ƯƶƕǇǄ ǂơƓƕ!ƒ ƯơǛƓǆǂ

ƧƛƋùǒ ǋùǇǄ Ɠǆǂ ÜƯƶƕ!ƒ ǄǌưƶƕƕǇǑƕƵǖ!ƒ ǂƿǖƵǍ ÜƔƧƥǆ!ƓƕǇǑƕƵǖ!ƒ ǂƿǖƵ ǏǀƵ ƧƛƋǒ Ɠǆ ƒƦǌǍ

ÜƨùǒƧ5!ƒ ǊƑƓƘǇ ǏǀƵ Ǒƕǀƪ ýǂƬƕ ƧƛƋǒ ƻǍƪ Ǒ!Ɠƙ!ƓƕǍ ǋƘǍƿ ǏǀƵǍ ƨǒƧ5ǀ! ǑƵƓǆƞ!ƒ ǁƪƓǆƘ!ƒ ǏǀƵ

.ǇǑƕƵǖ!ƒ ǂǒƪ5ǇǑ5 ƧǒƕǂƧǒƛƘǋ! ǇǑƕƵǖ!ƒ ƴǆ ƔƧƥǆ!ƒ ǁǍǀƪ ǇǄ ǋƕƕƪ ǁ!ƦǍ

:ƕƨƐƥƋƐ ƓƐǀǇƇ

:Ǐ!ǒ ǂƪƒƧƥ!ƒ ƻƥǌƘ

- ƻƧƶƘ!ƒ Ǐ!ǒ ǁǍǀƪ!ƒ ǑǀƵ5!ƒ ǑƕƧƥǆ! ǂǒƥǇǕƒ Ǒ5 ǏƧǍƥ ǇǑ5ƧƘơǆ!ƒ ǇǑƵƪǀ5!ƒ ǀƧǂ! ǄƥƘ!ƒ.

- ƻƧƶƘ!ƒ Ǐ!ǒ ǁǍǀƪ!ƒ Ǐƥ!ƒ ǋǀǆƽǒƵ ǇǑƕƵǖ!ƒ ǀƔƧƥǆ!ƒ Ǒ5 ǇǑƦǌ ǂǒƥǇǕƒ.

- ƻƧƶƘ!ƒ Ǐ!ǒ ƇƒƧƇ ǇǑƕƵǖ!ƒ Ǒ5 ƓƧƱǇ Ǐ!ǒ ǁǍǀƪ!ƒ Ǒǀǒơ!ƒ ǍƽǒƵ!ƒ ý ƔƧƥǆ!ƒ.

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- $(0.05 \geq \alpha)$

.(2006

-

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- [illegible]

[illegible] .(2010 [illegible])

- [illegible] :* [illegible]

.([illegible]) [illegible] ([illegible])

[illegible]:

1- [illegible] : [illegible].

2- [illegible] : [illegible]

.(2012-2013) [illegible]

3- [illegible] : [illegible] .(2012-2013)

[illegible]

[illegible]

[illegible] -1

[illegible]

[illegible] ..(2010 [illegible]) . [illegible]

[illegible] (1987 [illegible]) [illegible]

Σ5ǉù!ƒ Ďù Ǒù ưĜŏƧ!ƒ ǁĂ ʅ!ƒ Ɨʅƒ Ƨþ Ďǩnjŏ ĭŖ!ƒ Ďz!ƒ ǁ!Ŗ Ĭ Ƶ ʦ Ʊǉ ǤǉǉƎ Ǌŏ ƵĂ ÜǑưĜŏƧ!ƒ

ƔƧþùďž!ƒĂ ƔƵǘ! Ɨďžnjďž ƻƒþǋǅ ʦŏlơǩ Ŏ5 ƔƮǩ Ǒưĝŏ Ƨ!ƒ ǁĂ ʅ!ƒ Ɨʅƒ Ƨþ ǇǅďžƗŏǤʓ!ƒĂ ÜǑưĜŏƧ!ƒ

.Ǥnjǉďž ýz!Ă

1- ƴ5Ƨ ǩʅďž ăĂ Ƨ!ƒ ǑưĜŏ.

2- ƧŏĂƱǩ ʅ!ƒ ƘĜďž ƗŏƮPT!ƒ.

3- ƘĜhʎ ʅďž!ƒ ăĂ Ƨ!ƒ ǑưĜŏ.

4- ƗơƮ!ƒ Ɨŏʅ5ǉ!ƒ

:ăǫ ʦ ǊǉǊƎĎ! ʂ ǋǂ ʂ

ʦP Ŏ5 þƵĜʅǩĂ ƗƵĜďžŋ!ƒ ƗǂƧơ Ƨŏǂ ýǂT ƧʎďǩǩŎǩ!ƒ ýďžƒĂz!ƒ Ǉďž ĭþĜŏl!ƒ ǁĂ ʅ!ƒ þžŏ

.ǤƒĂʅ þơ Ĭ Ƶ ƗďžƲǉďž!ƒĂ þƧ5!ƒ ƻƒþǋǅ ʦŏlơǩ! Ďƨǘ!ƒ ǑǉĜʅǉǗƒ ýƵĜ5ǩ!ƒ

ĂǋǊ þƧ5!ƒ ƒŖǋ ǇĂǂŏ Ĝďž Ĝ!Ĝʓ Ă ÜƗƵĜďžŋ!ƒĂ þƧ5!ƒ Ǉŏ Ɨ!þĜǩďž Ɨþǘ Ƶ Ŏǋ lþĜŏl!ƒ ǅ Ʋơǘ ŏĂ

Ɨù ƵĜďžŋ!ƒ ǉŖǋ ǁĂ ʅ Ĭ Ƶ ƧŏʎďǩĂ Ǌŏ ŋĂǩ!ƒ Ɨŏďž þƑĜl!ƒ ĎĂlŏĂ (Ǉŏ zǤǩ!ƒ) Ďǋ ƗƵĜďžŋ!ƒĂ (þƑĜl!ƒ)

Ďù Ƶ ƴùŋƒƧďž ĎƲzďž ǅ Ďnjǉŏ ƗǂƧǩTďž ƻƒþǋǅ ʦŏlơǩ Ɨŏʓ ƗƵĂƧTďž!ƒ ýƑĜʅĂ!ƒĂ ʦƧƱ!ƒ ƻǩPďž

ĭŖù!ƒ ǑưĜŏƧ!ƒ Ǌďž Ƶ Ɨzŏ Ʊ ǤĂư Ŏ5 þƑĜlǂ ǑưĜŏƧ!ƒ ƔƧþďž!ƒ Ĭ Ƶ ʂǂƧǩ þĜǂǩ ǑưĜŏƧ!ƒ Σ5ǉ!ƒ

Ɨŏďžǉǩ Ĭ Ƶ ýďžzŏ ƘþĂ!ƒ Σ5ǉ Ŏ5Ă ǑưĜŏƧ!ƒ ʦŏƧ5!ƒ ǤĜưƵǅ Ĭ Ƶ ƧŏʎďǩĂ Ǌŏ ŋĂǩ!ƒ Ɨ!ĂĜơďž ƱǩƧŏ

ĭþĜùŏl!ƒ ǁĂ ʅ!ƒ þžŏĂ ÜĜǊƧŏĂƱǩĂ ʦŏƧ5!ƒ ǤĜưƵǅ ƴŏďžŋ ăþ! ƗŏĜŋŏǗƒ ƗŏƮPT!ƒ Ɣǉƒ Ăŋ!ƒ ƻǩPďž

ƘƒþĜùŏl!ƒ ǊʅƧĜďž ĭŖ!ƒ ƧŏʎďǩĎŋơ Ŏ5 ýʎĜďž ƘĂĜ5ǩ Ĭ!ǫ ĭþƋŏ ǊƵĂǉǩ ǇƒĂ lþĜŏl!ƒ ƘĜǉĂǂďž ăþơǫ

.(2005 ÜĭĂǘƵ) Ǉŏ zǤǩ!ƒ ƗƵĂďžŋďž Ĭ Ƶ ƗŏƧƒþǗƒ

أ-

ب- (2010).

[illegible]

. (2005 [illegible]) [illegible]

[illegible]

.(2010 [illegible]) [illegible]

:[illegible]

[illegible] (2004[illegible]) [illegible]

:[illegible]

.1 [illegible].

.2 [illegible].

.3 [illegible].

ǴùdžǅǴư ƵǕƒ ǏǁƵ ǑǁdžǒǍ ǕŧƵǴdžƞ!ƒ ŧƾƹƨ ƴdž ƯƨǴƶƙ Ǒƙ!ƒ ƨdžƒǍǕƒ ǇdžƨǒƛŧƒǑƱƶǒǍ ǕŧƵǴdžƞ!ƒ

ýùŧƾ DžƒƽƙǗƒ ǏǁƵ ŧƵǴdžƞ!ƒ ǅǴưƵƉ ƨǴƾƞǗ Ʊƺư!ƒǍ ƥǒƥǌƙ!ƒ ƔǒǴƮƉ DžƒƥƤƙƮǴƾ DžǍƖǒǍ ǕƝǁdžƵ Ɣƞǒ

.ƘǴdžǒǁƶƙ Ǉdž Džǌǒ!ƍ ƨƥƬǒ Ǵdž

ƨƶƬǒǍ ǕƖǗǴƾdž!ƒ DžƥƵǍ ŧǒƾǁƮ!ƒ Ǎ ŧǒǈƒǍƥƶ!Ǵƾ ƥƒƨ5Ǖƒ ƽǒdžƙ Ǐ!ƍ ƚƥǴǒƖ!ƒ Ǉdž ƳǍǈ!ƒ ƒƘǋ ǐƥƌǒǍ

Džǌưùƶƾ ǇǒƾŧƥǴƾƙdž!ƒ ŧƖƛ!ƒ DžƥƶǈƙǍ ǕƥƑǴƖ!ƒ ǏǁƵ ƒƥǴdžƙƵƒ ƨƛŧƉ DžǌǁƶƞǒǴdždž ƽƞƶ!ƒǍ ƨǍƬƖ!Ǵƾ ƥƒƨ5Ǖƒ

ǇǒùƾƥǍƮùǒ ǁ!Ʀŧ .ƥƑǴƖ!ƒ ǈǴƞƙ ŧǒǌƒƨŧ!Ǵƾ ƨǍƶƬ!ƒ ǍdžǈǏ!ƍ ǐƥƌǒ ƒƦǌǍ ǕƥƑǴƖ!ƒ ǇǒƾǍ DžǌǈǒƾǍ Ưƶƾ!ƒ

ŧùǒǍǈƶdž!ƒ ƟǍƨù!ƒ Ưù5Ƥ Ǐù!ƍ ǐƥƌùǒ ǴdžǴdž ƪǁ!ƒǍ ƱǴƾơǗƒǍ ƨƒƨƖƮǗƒ DžƥƶƾƨǍƶƬǅǴưƵǕƒ

.ǅǴưƵǖ!

:ƾǏǌƬǌǇǁƐ ƴƣƑǏƪǁƐ

ǇǍŧǒ ƚƥǴǒƖ!ƒ Ǉdž ƳǍǈ!ƒ ƒƘǋ Ǒ5Ǎ ǕýƤƥƙ!ƒ DžƥƵ ƚƥǴƿ ǍƉ ŧǁƱdž!ƒ ŧǒƨơ!ƒ ǴưǒƉ ǴǌǒǁƵ ƪǁƱǒǍ

ƱǴƬǈ!ƒ ƨǴǒƤƒǍ Ƙƒƨƒƨ!ƒ ƦǴƤƙƒǕƸƒƥǌƕƒ ƥǒƥơƙǍ ǕýdžƶǁǗ! ƱǒƱƤƙ!ƒ Ǒ5 ƥƒƨ5ǖ! ŧǁƱdž ŧǒƨơ ǁǴǈǌ

ƥƒƥƶùƮǗƒ ƨǴùǌǇƍ ƴdž ǏǈƥƉ ƥơƾ Ǖƍ ǁƨƬǒ ǖ5 ǴǒƥǴǒơ ǇǍŧǒ ƥƑǴƖ!ƒ ǁǍǁƮ ǇƷ5 ǁ!Ʀŧ ǕǅǴƥƬǕƒǍ

.ǁ!Ʀ ǅǴưƵǕƒ ǈǈdž ƔǁƱ ƒƦƍ ƠƬǈ!ƒ Džǒƥǁƙǒ ŧǈǍǴƶdžǁ!

ŧƞƨƥƾ ǇǍŧƙ ƥƒƨ5Ǖƒ Ǉǒƾ ŧ!ƥǴƾƙdž!ƒ ŧǁƛ!ƒǍ ƥǍ!ƒ ƘǴƥǖƵ ǇƉ ƚƥǴǒƖ!ƒ Ǉdž ƳǍǈ!ƒ ƒƘǋ ǊƑǴƙ ǇdžǍ

.ǅưǒƉ ŧƱƮǍǈƙdž ŧƞƨƥƾ ƨdžƦƙ!ƒǍ ƪǁǁ!ƒ Ư5ƤǒǍ ǁ!Ʀŧ ǕŧƱƮǍǈƙdž

"Chelladurai" (2004

Task- Oriented behavior

Oriented behavior

Ĭù Ƶ ǇƒƧλƋùƙ ƗùƵǄǆƞ!ƒ ƇǄƣƵǁĂ ƻƿĂǆ!ƒ Ǉǆ ýǂ ƒ ƑǄƬƤ ǇǁƥƞǇƒƦǂNjĂ Consindration
.(2004 ÜŎNjǄ ÜƱŏƽơ!ƒ ƥƵ) .ǇŏƧƥǆ!ƒ

:ƔƍƑĭƨǂǁ ƍƑƔǄŰƐ ƍƍƔǂǅ "ăƐƥNjƍűĭƪ" ǂƤNjǅǆ

Ü(2004 ŎNjǄùĂ ÜƱŏùƽơ!ƒ ƥùƵ ǇƵ ƹǁǇ) (1980) "Chelladurai ĭƒƧĂƥŭŏƬ ǅǄƿ"

Ŏù5 Ɨ!ǄƺƼ!ƒ ƚƥǄŏǀ!ƒ ǁĂƪ ƻŏƧƺƙĂ ƘǄ5ƬƒĂǆ ƧǄƱƺ ǅŏƥǀƙ! ƚƥǄŏǀ!ƒ ǇƵ ƥǄƺŰƒ ƥƥƺƙǆ ƜƦĂǆǇ ƴƣĂ
.ƗƼƙƤǆ!ƒ Ɨŏ ƣǄŏƧ!ƒ ƻƿƒĂǆ!ƒ

ǇƒƥūùǃƗùŏǄƞŏŰƒ ǋƑǄƙǇ!ƒ ǇǁƢƧƙƼŏ ǋǇǁŎ5 "ĭƒƧĂƥŭŏƬ" ƜƦĂǆǇ ƒ ŏƤƙ ǇǂǆŏĂ ƒƦǂNj

ǇŏùǄƨǄùƱƙ ǁǄùǇNj ǇǄǂ ƒƦƍ ǄnjŏƍýĂƬĂ!ƒ Ǉǂǆŏ ǇŏƵű!ƒ ƔǇǄƞ Ǉǆ ŎƵǄǆƞ!ƒ ǄƣƧ!ƒĂ Ŏ!Ǆλǆ!ƒ

ǄnjŏƣùƙǀŏƚƥǄùŏƥƘǄŏǂĂùƪ ƔƧƥǆ!ƒ ƧnjƱǁ ƒƦƍ ǋǇǁ ĬǇƺǆǄ ÜƥƑǄǀ!ƒ ǁĂƪǄ ǂƬǄƤ!ƒ ǂλŭλ!ƒ ƔǇƒĂƞ!ƒ

ýĂùƬĂ!ƒ Ĭù!ƒ ĭƥƋŏƪ ǁ!Ʀ ǇƷ5 ÜƇǄƣƵŰƒ ƘǄƹƧ ĂǁƘŭŏƣ5ƙ ƴǆ ǂ!ƪƙǆ ǇĂǂƙĂ Ǉŏƺǆ ƻƿĂǆ
.(2004 ÜŎNjǄ ÜƱŏƽơ!ƒ ƥƵ) ƇǄƣƵŰƒ ǄƣƧĂ Ŏ!Ǆλǆ!ƒ ƇƒƥŰƒ Ĭ!ƒ

[illegible] :

[illegible] -

[illegible] (2011) [illegible]
[illegible]
[illegible] (44) [illegible]
[illegible] (55) [illegible]
[illegible]

[illegible] (2010) [illegible]
[illegible]
[illegible] (110) [illegible] (2012 -2011)

[illegible] (2010) [illegible]

[illegible] 2010 / 1/10 [illegible] 2010 /5 /1 [illegible]

[illegible] (2007) [illegible]

[illegible] (101) [illegible] (47) [illegible]

[illegible]

þþƺ! ăƨƶŏ lƧƒþŰƒĂ lþĜŏl!ƒĂ Ŏƪ5Ǉ!ƒ ƽ5ƒĂk!ƒ Ŏ!Ĝƞdž Ŏ5 ƗŏFĜƮơƺ Ɨ!Ŭþ ƘƒƦ ƽĂƧ5 þƞĂk -

ýĜƮkŬƒ ýĜƞdž Ŏ5 ƽĂƧ5 ĭ Ƨnjǀk Dž! LJŏơ Ŏ5 ýpǅ5 ƘƒĂǇƪ (4) Ơ!ĜƮ!Ă Ɣƶ!ƒ ƘƒĂǇƪ

.ŎƵĜdžkƞŬƒ

ǁĂƪ!ƒ ƱĜdžǇ ĬƵ ƻƧƶk!ƒ Ĭ!ƺ Ɨƪƒƨþ!ƒ ǇƦNj Ƙ5þNj Ɨƪƒƨþ (2006) ĬƗFƺþǁ ăƨƞĂ

(60) LJdž Ɨƪƒƨþ!ƒ ƗǇŏƵ ƘǇĂǂk þpĂ ÜƗƱ!ƒ ƧǕǇ ƗnjƞĂ LJdž ƗŏưĜŏƧ!ƒ ƗŏƧk!ƒ ƩƧþdž! ĭþĜŏl!ƒ

Ĝdžǂ ÜƗ!ĜƱ (400) DžNjþþƵ Ƹ!Ĝ!ƒ ŎƮŪƒ Ɨƪƒƨþ!ƒ ydžkƞdž LJdž ŎFƒĂTƵ ýǂT DžNjƧĜŏkƤƒ Džk Ɨ!ĜƱ

LJdž ƗŏưĜŏƧ!ƒ ƗŏƧk!ƒ ŎƪƧþdž! ĭþĜŏl!ƒ Ʊdžǉ!ƒ ƩĜŏl! Ɨƪƒƨþ!Ĝ ƒĜP ƩĜŏldž ƧŏĂƱk ƗơĜ!ƒ DžĜp

lþĜdž!ƒ ŎǇĜƛ!ƒĂ (þƒƧ5ŪĜ DžĜdžkNjŬƒ) ƗŏƧĜkƵŬƒ ýĂŪƒ LJŏþƶ ƩŏlŏƩĜŏldž!ƒ ƒƦNj ÜƗƱ!ƒ ƧǕǇ ƗnjƞĂ

Ɨƪƒƨþ!ƒ ƘƧnjǀ ǋFĜkǇ LJdž Ɨƪƒƨþ!ƒ NJ! ƘƮĂk Ĝdž ƨƧ LJĜǂ þpĂ Ü(ýdžƶ!Ĝ DžĜdžkNjŬƒ) ýdžƶ!ƒ Dþ!

y5kƧdž DžĜdžkNjƒ ĭþĜŏl!ƒ Ʊdžǉ!ƒ LJĜǂ ƗŏơÜƗŏưĜŏƧ!ƒ ƗŏƧk!ƒ ƩƧþdž! ƗƶƧŪƒ ƗŏþĜŏl!ƒ ƱĜdžǇŪƒ þĂƞĂ

lþĜdž!ƒ Ŏ5 Ư5ƤǇdž Ʊdžǉ!ƒ NJŏŏ ÜƵĂŏT Ƨƛǂŭƒ Ʊdžǉ!ƒ ĂNj - lþĜdž!ƒ Ŏ5 Ư5ƤǇdžĂ ƗŏƧĜkƵŬĜ

ýdžƶ! ƧĜƱƺ yưĂ lþĜdž!ƒ Ŏ5 y5kƧdž Ʊdžǉ!ƒ Džƛ .ƗŏƧĜkƵŬƒ Ŏ5 Ư5ƤǇdžĂ ýdžƶ! ƧĜƱƺ yưĂ

Ŏ5 y5kƧdžĂ ýdžƶ! ƧĜƱƺ yưĂ lþĜdž!ƒ Ŏ5 y5kƧdž Ʊdžǉ!ƒ ƭƧŏƤ Džƛ .ƗŏƧĜkƵŬƒ Ŏ5 Ư5ƤǇdžĂ

.ƗŏƧĜkƵŬƒ

ŎƪƧþdž! ƗĂƱdž!ƒ ƗŏþĜŏl!ƒ ƘĜdžƪ!ƒ Ɨ5ƧƶdžĬ!ƺ Ƙ5þNj Ɨƪƒƨþ (2004) ĬƨFĜY ƘdžĜp

ƻƧƶk!ƒ Ĭ!ƺ Ɨ5ĜưŰĜ ÜƗdžƮĜƶ!ƒ ƗǕ5ĜơdžŎ5 ƩƧƒþdž!ƒ ĈƒƧþdž ƧǕǇ ƗnjƞĂ LJdž ƗŏưĜŏƧ!ƒ ƗŏƧk!ƒ

.lƧƤ!ƒ ƘƒĂǇƪĂ ÜŎdžƶ!ƒ ýNjǅdž!ƒ ÜƩǇƞ!ƒ ƘƒƧŏƺkdž! Ɨƶk ƘĜdžƪ!ƒ ǁk Ŏ5 ƽĂƧ5!ƒ ĬƵ

LJdž Ɨƪƒƨþ!ƒ ƗǇŏƵ ƘǇĂǂk þpĂ ÜƗƪƒƨþ!ƒ ƗƶŏƱ! NJkdžFŭdž! ŎƮĂ!ƒ ǋnjǇdž!ƒ ƗƛơĜ!ƒ ƘdžþƤkƪƒĂ

ydžkƞdž LJdž (%76.06) ƗdžƮĜƶ!ƒ ƗǕ5ĜơdžŎ5 ƗŏdžĂǂơ ƗŏĂǇĜƛ Ɨƪƨþdž lƧŏþdžĂ Ƨŏþdž (187)

þp (ƩǇ!Ĝ Ɨ!ƛ!Ĝ yŏdžkŏ) ĬƵ ƒǇk Ŏk!ƒ Ɨdžƪ!ƒ LJǅ Ɨƪƒƨþ!ƒ ǋFĜkǇ ƘƧnjǀ þpĂ ÜŎƮŪƒ Ɨƪƒƨþ!ƒ

ƗŏưĜŏƧ!ƒ ƗŏƧk!ƒ ŎƪƧþdž! ƗĂƱdž!ƒ ƗŏþĜŏl!ƒ ƘĜdžƪ!ƒ yŏdžƞ LJŏ LJdž Ĭ!ĂŪƒ ƗkƧdž!ƒ ĬƵ ƘƮơ

[illegible]

.([illegible]

[illegible] (2002) [illegible] (107) [illegible] (14) [illegible]

[illegible] (2002) [illegible]

[illegible]

[illegible] (Paul, Ian & Williams 2010) [illegible] (25) [illegible] 9- [illegible] 70 [illegible] 16- [illegible] 13- [illegible]

[illegible]

(Potrac, Jones, and Cushion, 2007) [illegible] (ASUOI) [illegible]

ǂ٦ƒƧϸ!ƒ ƝƑƓƙǉ ƘƧƓƬƊ . ǂǁƞ٦ǆ!ƒ ǂǒǂǍǁ٦!ƒ ƘƒƧƙƽ!ƒ ƴǒǆƞ ǈǆ (% 45 Ü54) ýƛǆƙ ƘƓǆǒǁƶƙ!ƒ

Ǒƽ (15:44) ýƛǆƙ "ϸǆơ!ƒ " ǈǅ ǈǒơ Ǒƽ ÜƓǜǒƧlƙ (23:01) ǂǜ٦ǉǜ "ƔǒǉǆƙǕ!" Ƨǒǜǂ!ƒ ƇƓǉƛ!ƒ Ǐ!ǫ

. ǂƑƓǆ!ƒ Ǒƽ 0.67 Ʊlƽ ýƛǆƙ "Ɣǉǅ" ÜlƧƽƬǆ!ƒ ƘƓǒǂǍǁ٦!ƒ ƔǍǆƞǆ ǈǆ ǂƑƓǆ!ƒ

ƽǒlơǕ! Ƙƽϸǋ ǂ٦ƒƧϸ ƇƒƧƞǜ (Paddy, McComack, 2007) ϸƑǅǋlƑǅǋ ǎƣƑƓ ǅƓϸ

ÜƓǒǁƶ!ƒ ƘƓǒǍƙ٦ǆǕ! ǈǒǜƧϸǆ!ƒ lϸƓl!ƒ ǐϸ! lϸƓǒl!ƒ ƘƓǒǂǍǁ٦!ƒ ǏǁƵ ƧƛǆƙǑƙ!ƒ ǂƽǁƙƤǆ!ƒ ýǆƒǍƶ!ƒ Ǒƽ

ƘƓǒǍƙ٦ǆ!ƒ ǈǒǜƧϸǆ ǈǆ ƒǍǉǒ٦ ǂƶƱƓlǆ Ǒƽ ƔƧϸǆ (35) ƓǌǆƒǍϸ ǂǉǒƵ ǏǁƵ ǂ٦ƧƒϸƟ!ƒ Ƙ ǒƧƞǅ ǂǒơ

ƘƓǒǂǍǁ٦Ǎ ǋ٦ƽǉ ƧǍƬƙ ǏǁƵ ǈǒǜƧϸǆ!ƒ ϸƓǆƙƵƒǍ ǂǒƽƒƧƹǍǆǒϸ!ƒ ǈƓǒǜƙ٦ƒ ǏǁƵ Ơ٦ǆ!ƒ ƇƒƧƞǫ ǅƙ ƓǒǁƶǕ!ƒ

ǂưƓǒƧǁ! ǂơlǉǆ!ƒ lϸƓǒl!ƒ ƩƓǒlǆ ǅƒϸƤƙ٦ƓǜƓ ýǒǁơƙ!ƒ ǅƙ ǅƛ ǂǒǜǒƧϸƙ!ƒ ƘƓǒǂǍǁ٦Ǎ ϸƑƓl!ƒ

ÜƔǒƧϸƙ!ƒ ƴƽƒǍϸ ǏǁƵ ǂǒƽƬǍ!ƒ ƘƓǉƓǜ!ƒ ƴǆƞ ǅƙ ϸƥǍ .(Zang.Jensen, & Mann, 1997)

ǅƒϸƤƙ٦ƒ ǅƙ ϸƥǍ ÜƔƧϸǆ!ƒ ǂǆǉǉƙ Ǎ ǅǁƶƙ!ƒ ƧϸƓƬǆǍ ÜƟƓƞǉ!ƒ ƩƓǥ ƧǒǒƓƶǆǍ ÜƔƧϸǆ!ƒ ǈǆ ýǂ ƧǍϸǍ

ǅǒǁƶƙ ǎǍƙ٦ǆǍ ÜlƧǜƤ!ƒǍ ÜƧǆƶ!ƒ ǈǒǜ ǂϸǖƶ!ƒ ǈƵ ǂǆǂ!ƒ ƘƓǉƓǜ!ƒ ǏǁƵ (ANOVA) ǈǒƓǜƙ!ƒ ýǒǁơƙ

ǂǒ٦٦ƙǆ!ƒ lƧƱǉ!ƒǍ Ƨǆƶ!ƒ ǈǒǜ ǂ!Ǘϸ ƘƒƦ ǂϸǗƵ ϸǍƞǍ ǂ٦ƒƧϸ!ƒ ƝƑƓƙǉ ƘƧǌƱƊ .lϸƓl!ƒǍ ÜƔƧϸǆ!ƒ

ǂǜƧƞƙ ǈǒǜǍ Ü(P = 0.020) ƔǒƧϸƙ!ƒ ǂǜƧƞƙǍ ǅǁƶƙ!ƒǍ ƔǒƧϸƙ!ƒ ǐϸƓǉ ǂϸǗƵ Ü(p =.001)

ǂϸǗƶ!ƒ Ǒƽ lƧǜƤ!ƒ ǈǆ ǂǆǒϸ ǂ٦ƒƧϸ!ƒ ƘƧǌƱƊǍ Ɠǆǂ .(P =0.23) ǅǒǁƶƙ!ƒǍ ǂƶƱƓlǆ!ƒ ǈǒǜ ƔǒƧϸƙ!ƒ

.ƔƧϸǆ!ƒ ǅǒǁƶƙ ƝǆƓǉƧǜ!ƒ ǎƙƵǆǍ Ǒǂǜlƙ٦ǆ!ƒ ǉƓƞƙǗƒ ǍơǉǍ ƔǒƧϸƙ!ƒǍ ǁǍǁ٦!ƒǍ

(Alfermann, Lee, and Wörth, 2005) ƘϸǐǋǋǏ ǁǋ ǅƑǅϸǐƧǁǁ ǈǆ ýǂ ǅƓϸǍ

ǂǆǉǉƙ Ǒƽ ƘƒƧƛƾǆǂ ǐƨǒƽơƙ!ƒ ƣǒǉǆ!ƒǍ lϸƓl!ƒ ƘƓǒǂǍǁ٦ Ǐ!ǫ ƧƱǉ!ƒ Ǐ!ǫ ƓǆǉǉǉƓǆ ýǂ Ƙƽϸǋ ǈǒƙ٦ƒƧϸǜ

58 ÜƧǍǂƦ 61) ƒ Ƥƒ 119 ǏǁƵ Ǐ!ǍǗƒ ǂ٦ƒƧϸ!ƒ ƘǕǆƙƬƒ ǂǒơ ÜǈǒƺǁƓǜ!ƒ ǈǒǒưƓǒƧ!ƒ ƘƒƧƓǌǆ

ǂǉ٦ ýǗƤ ǈǒƙƧǆ ƒǍǜƓǋƙ٦ƒ ÜǂǉǍ 12.5 Ƨǆƶ ýϸƶǆǜ ǂǒϸǉǅ lϸƵ ǈǆ ǈǒ٦ƽǉƛǆ ǈǒơƓǜ٦ ǅǋ (ǂƓǉǫ

212

15 (76 136)

4

(Huang, 2003)

(285) (23)

(GEQ) (LSS)

(T-test)

[illegible]

[illegible] (Kassing, Infante, 1999) [illegible] (192) [illegible]

[illegible] (Womak, 1999) [illegible] (106) [illegible] %61 [illegible]

[illegible]:

[illegible]

[illegible]:

[illegible] 2010 [illegible] 2010 [illegible] 2010 [illegible] Paul, Ian & Williams 2010 [illegible] 2000 [illegible] 2002 [illegible] 2006 [illegible] Alfermann, Lee, and WÑrth, 2005 [illegible] Potrac, Jones, and Cushion, 2007 .(Huang, 2003

[illegible] (2007 [illegible]) [illegible].

[illegible] 2004 [illegible] 2011 [illegible] Paddy, McComack, 2007 [illegible] .(Womak, 1999

[illegible] (2002 [illegible]) [illegible].

[illegible]

[illegible]
.(2004 [illegible] ،2010 [illegible] ،2010 [illegible]) : [illegible]

[illegible]
Alfermann, ،2002 [illegible] ،2004 [illegible] ،2007 [illegible] ،2011 [illegible]
.(Lee, and WÑrth, 2005

[illegible]
.(Huang, 2003 ،2010 [illegible] ،2010

[illegible]

[illegible]
[illegible]
[illegible] ،2010 [illegible] ،2010 [illegible] ،2010 [illegible] ،2011 [illegible]
(Paddy, McComack, 2007 ،Paul, Ian & Williams 2010 ،2007

Kassing, Infante, 1999; Alfermann, Lee,) [illegible]
[illegible] (2006 [illegible]) [illegible] (and WÑrth, 2005
.[illegible] (2000 [illegible])

[illegible] (2002 [illegible] ،2002 [illegible] ،2004 [illegible]) [illegible]
.[illegible]

þƧùƼ (200 Ĳ 25) ǈǑǚ Ǵǆ ǁǉǑƶ!ƒ þƒƧƼƋ þþƵ ýþƶǆ ƟĂƒƧƙ þǀƼ ǁǒƧǆƶ!ƒ ǂƑƼ!ƒ ǁǒơ ǈǆ ǴǆƋ

þƵǴùƪ Ǵùǆ ƒƦùǋĂ (Huang, 2003) ǁƪƒƧþĂ (Paul, Ian & Williams 2010) ǁƪƒƧþǂ

.ǁǒ!Ǵơ!ƒ ǁƪƒƧþ!ƒ ǁǉǑƵ þƒƧƼƋ þþƵ þǒþơƙ ŎƼ ǁơǴǚ!ƒ

:ƛǝƑǁǆǁǁƐ ƘĭƟ ǄǄ :ƒyǴƐþ

ǁǒǂĂǁƪ!ƒ ƱǴǆǉǕƒ ƘĂǴƼƙĂ ǁƪƒƧþ!ǴǙ ǁƮǴƤ!ƒ þǴƶǚǕƒĂ ƘƒƧǒʓƙǆ!ǴǙ ĭþǴǒǀ!ƒ ǁĂǁƪ!ƒ ƱǴǙƙƧƒ

Ɣűʊ ĂƋ ǈǑǚƵǕ ĂƋ ǈǑƪƧþǆ ĂƋ ǈǑƧǒþǆ ĂƋ ǈǑǚƧþǆ ǈǆ ǁƪƒƧþ!ƒ þƒƧƼƒ ǁǉǑƵ ăþ! ǁǆþƤƙƪǆ!ƒ

.(Ŏƪ ǴǆĂǁǚþ!ƒ ǕŎƱƒƧǀǆǒþ!ƒ Ǖĭ ƧĂƙǴƙǂþ!ƒ) ƱǆǉǴ!Ǵǂ

Ŏùǆǁƶ!ƒ ýùǋƋǆ!ƒ ƻűƙƤǙ ĭþǴǒǀ!ƒ ǁĂǁƪ!ƒ Ʊǆǉ! ǁǒƑǴƮơƒ ǁ!Ǖþ ƘƒƦ ƨĂƧƼ þĂŋĂ ǄþƵ

.ǀƧǚƤ!ƒ ƘƒĂǉƪĂ

[illegible] (2) [illegible]

[illegible]

(1) [illegible]

[illegible]

[illegible]		[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8.9	24	9.12	25	[illegible]
7.4	20	7.66	21	[illegible]
8.2	22	8.02	22	[illegible]
8.6	23	8.75	24	[illegible]
8.6	23	8.39	23	[illegible]
8.9	24	8.75	24	[illegible]
8.6	23	8.39	23	[illegible]
8.6	23	8.39	23	[illegible]
7.4	20	7.29	20	[illegible]
7.8	21	7.66	21	[illegible]
8.6	23	8.39	23	[illegible]
8.6	23	9.12	25	[illegible]
100.0	269	100.0	274	[illegible]

(2) [illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]
31.6	85	[illegible] 20 [illegible]	[illegible]
29.4	79	[illegible] 23-20	
20.4	55	[illegible] 27-24	
18.6	50	[illegible] 27 [illegible]	
100.0	269	[illegible]	
72.9	196	[illegible] 3-1 [illegible]	[illegible]
17.1	46	[illegible] 6-4	
5.2	14	[illegible] 9-7	
4.8	13	[illegible] 9 [illegible]	
100.0	269	[illegible]	
44.2	119	[illegible] 3-1 [illegible]	[illegible]
30.9	83	[illegible] 6-4	
14.9	40	[illegible] 9-7	
10.0	27	[illegible] 9 [illegible]	
100.0	269	[illegible]	
41.3	111	[illegible]	[illegible]
21.6	58	[illegible]	
32.7	88	[illegible]	
4.5	12	[illegible]	
100.0	269	[illegible]	

[illegible]

[illegible]

[illegible] (1998) [illegible]

[illegible]

[illegible] (2) [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

(4) [illegible] (8) [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

ǴnjƙƧĂƮƕ ƘǴǇǴƕƙƖŰƒ ƠƯĂŏ (3) ǄƿƧ ƾƠǇǆ!ƒĂ ÜǅnjƑƒƧƈ ǰǴƱƵŰ ǇŏǆǂƠǆ!ƒ ƯƶƕĪǇƵăƧƤǄ

ĬǇƵ ŎNjĂ ƥǴƶƕǄ ǂŏǇǴǆƛ ĬǇƵ ƘƵƨĂƙ ƖƧǀ5 (30) ĬǇƵ ŎǇƶ5!ƒ ǁĂǇƖ!ƒ ǇǴŏƕƙƖƍ ýǆƙƬƒ ǂŏƠ ǂŏƑǴnjǇ!ƒ

:Ŏ!Ǵƙ!ƒ ĂƠǇ!ƒ

.10-1 ǇǆƘƒƧǀ5!ƒ ǇǆƯƙŏĂ :ƥƑƖƥŰƐNj ƒĭƥǂǀƐ: üNjŬƐ ƥƴǴǀƐ

.15-11 ǇǆƘƒƧǀ5!ƒ ǇǆƯƙŏĂ : ĬƳƑǄǂƜŰƐ ƥĭƥƾǂǀƐ: ĬǆƑƙǀƐ ƥƴǴǀƐ

.18-16 ǇǆƘƒƧǀ5!ƒ ǇǆƯƙŏĂ : ƦĭƸƟǂǀƐ: ƘǀƑƙǀƐ ƥƴǴǀƐ

.20 Ă 19 ƘƒƧǀ5!ƒ ǇǆƯƙŏĂ : ƕǀƐƥƴǀƐ: ƱǴƐƥǀƐ ƥƴǴǀƐ

.ƱǀƖ 21 ƖƧǀ5!ƒ ǇǆƯƙ ƥƿĂ : ĬƮƑĭƥǀƐ ƀƐƥŬƐ üĭNJƨǂ: ƧǄƑƢǀƐ ƥƴǴǀƐ

.25-22 ǇǆƘƒƧǀ5!ƒ ǇǆƯƙŏĂ : ĬƯǂƨǂǀƐ ƿNjǂƨǀƐ: ƧƥƑƨǀƐ ƥƴǴǀƐ

.30-26 ǇǆƘƒƧǀ5!ƒ ǇǆƯƙŏĂ : ĬƯƐƥƾǄĭƥǀƐ ƿNjǂƨǀƐ Njƈ ƕǀƥƑƖǄǀƐ: ƱǴƑƨǀƐ ƥƴǴǀƐ

.30 Ă 29 ƘƒƧǀ5!ƒ ǇǆƯƙŏĂ :ƕĭƟƬǀƐ ƒǆƐNjƜǀƑǴ !ƑǄǂǰŰƐ :ǄǄƑƙǀƐ ƥƴǴǀƐ

ŎNjĂ ƥǴƶƕǄ ǂƖǆƤ ĬǇƵ ƘƵƨĂƙ ƖƧǀ5 (21) ĬǇƵ ýƯǆ!ƒ ǁĂǇƖ!ƒ ǇǴŏƕƙƖƍ ýǆƙƬƍ ǴǆǇŏƕ

: Ŏ!Ǵƙ!ƒ ĂƠǇ!ƒ ĬǇƵ

ƘƒƧǀ5!ƒ ǇǆƯƙŏĂ :ǄĭǴƳűǀƐ ƀƐƥƈNj ƒƥƥǂǀƑǴ !ǂNJĭ ăƤǀƐ ĬƮƑĭƥ üƐ ƒƥƥǄǀƐ ƿNjǂƨ :üNjŬƐ ƥƴǴǀƐ

.6-1 Ǉǆ

ǇǆƯƙŏĂ : !NJǂƋƷƑǀǄNj !NJǂĭƑƳƥNj ǄĭǴƳűǀƑǴ !ǂNJĭ ăƤǀƐ ĬƮƑĭƥǀƐ ƒƥƥǄǀƐ ƿNjǂƨ :ĬǆƑƙǀƐ ƥƴǴǀƐ

.14-7 ǇǆƘƒƧǀ5!ƒ

ϸƿĂ : ƦĭѲƗǁǀ !ǭYŇ ǅĭĭǴYǘǁǀ ǅĭĭǴ ƕʊǘƴǁƑǴ !ƗŊĭ ăƤǁǀ ǏƮƑĭϸǁǀ ƒϸǭǅǁǀ ƿŇǂƨ: ƘǁƑƙǁǀ ǭƴǴǁǀ

.16 Ă 15 ǇǑƙƧǀʒ!ƒ ǇǅƜƙ

ǅǅƮƗŇ : ǀƐϸƐϸƨǁǀ ƤƑƢǂƑǴ ǅĭĭǴYǘǁǀ ƿƐϸƪǡǴ !ƗŊĭ ăƤǁǀ ǏƮƑĭϸǁǀ ƒϸǭǅǁǀ ƿŇǂƨ : ƱǴƐϸǁǀ ǭƴǴǁǀ

.18 Ň 17 ǅĭƗϸƨƧǁǀ

ƘƒƧǀʒ!ƒ ǇǅƜƙǑĂ : ǇǭϸƧǅǴ ǀƐϸƐϸƨǁǀ ϸƐǭƬǡǴ !ƗŊĭ ăƤǁǀ ǏƮƑĭϸǁǀ ƒϸǭǅǁǀ ƿŇǂƨ: ƧǅƑƢǁǀ ǭƴǴǁǀ

.21-19 ǇǅƜ

:ƕƨƐϸǭǁǀ ƔƐǭǴ ǀƑǴƙ

ƗùǃϸǴƶǅ ýǘƤ ǇǅƜ ǑǃƤƒϸ!ƒ ƨǴƪƙǛƒ ƗǀǑƧƱ ƗơǴ!ƒ ǅϸƤƙƪƒ ƗƪƒƧϸ!ƒ ǀƒϸǂ ƘǴǀ ǇǅƜ ƨǀơƙǃ!

(4) (3) ǇǛĂϸùƞ!ƒ Ǜýùǂǂ ǀƒϸǛƒĂ ƗùƪƒƧϸ!ƒ (ϸǴùƶǂǂ) ƘǛǴùƞǅ ƘƒƧǀʒ ƴǑǅƞ! (ǴʒǃǂƢǴǂĂƧǂ)

.ǁ!Ʀ ǇǴơƜĂǑ

(3) üŇǭǁǁ

ǏǂƴƧǁǀ ƒϸǭǅǁǀ ƿŇǂƨǁ üǁǀ ƔƐǭǛƐŇ ƕƨƐϸǭǁǀ ǭƑƴǴǀ ƱĭǅǁǁǀƑǴƙǁǀ ǀǘǅƑƴǅ

ƑƧǁǀ ƠƑǴǅŇϸǀ üǅƑƴǅ	ǭƴǴǁǀ	!ʒϸǁǀ
0.86	ǅĭĭǴYǘǁǀ ƃƐǭǀŇ ƒϸǭƗǁƑǴ !ƗŊĭ ăƤǁǀ ǏƮƑĭϸǁǀ ƒϸǭǅǁǀ ƿŇǂƨ	1
0.83	!ŊƗĭƑYϸŇ ǅĭĭǴYǘǁƑǴ !ƗŊĭ ăƤǁǀ ǏƮƑĭϸǁǀ ƒϸǭǅǁǀ ƿŇǂƨ !ŊƗƷƑǀǅŇ	2
0.80	ǅĭĭǴYǘǁǀ ǅĭĭǴ ƕʊǘƴǁƑǴ !ƗŊĭ ăƤǁǀ ǏƮƑĭϸǁǀ ƒϸǭǅǁǀ ƿŇǂƨ ƦĭѲƗǁǀ !ǭYŇ	3
0.97	ƤƑƢǂƑǴ ǅĭĭǴYǘǁǀ ƿƐϸƪǡǴ !ƗŊĭ ăƤǁǀ ǏƮƑĭϸǁǀ ƒϸǭǅǁǀ ƿŇǂƨ ǀƐϸƐϸƨǁǀ	4
0.88	ǇǭϸƧǅǴ ǀƐϸƐϸƨǁǀ ϸƐǭƬǡǴ !ƗŊĭ ăƤǁǀ ǏƮƑĭϸǁǀ ƒϸǭǅǁǀ ƿŇǂƨ	5
0.96	üǁǁ ƔƐǭǛƐ	

LJöǀ ƘơĂƒƧƙ ƗƪƒƧƥ!ƒ ƖƒƥƉ ƥǴƶǀŪ ƘǴǀƛ!ƒ ƘŭǆǴƶǆ LJƉ (3) ýĂƥƞ LJǆ ƧnjƯŏ

ƦǴƤƙǴǀ LJöǀƵŭ!ƒ ǁƒƧƬǀ ǆƙnjö ĭƦ!ƒ Ŏưǵöƨ!ƒ ƔƧƥǆ!ƒ ǁĂǁƪ" ýǴƞǆ! ǴNjŭƵƉ (0.97-0.80)

ǆƥƵĂ LJöǀƵŭ!ƒ LJöǀ ƗƥŭƶǴǀ ǆƙnjö ĭƦ!ƒ Ŏưǵöƨ!ƒ ƔƧƥǆ!ƒ ǁĂǁƪ" ýǴƞǆ! ǴNjǴLjƥƉĂ "ƘƒƧƒƧ!ƒ

ƫöǀƱƙ ƯƒƧƺŪ Ɨ!ĂǀǀǆĂ ƗƶƽƙƧǆ ǆöƥ ŎNjĂ Ü(0.96) ýǂǂ Ɩƒƥū! ƘǴǀƛ!ƒ ýǆǴƶǆ Ƹǀǀ Ǵǆǂ Ü"ƨŏơƙ!ƒ

.ƗƪƒƧƥ!ƒ

(4) üNjƣǀǀ

üƬƵƉǁǁ ƒƥƣƉǁǁ ƥNjǂƨǁ üǀǀ ƔƐƣŬƐNj ǀƨƐƥƣǁƐ ƣƑƴǴŬƐ ƯĭƉǀǀǀ ǀƑǴƙǁƐ ǀűƉƑƴƉ

ƑƵǁǁǴ ƠƑǴǆNjƥǀ üƉƑƴƉ	ƣƴǴǁƐ	!ƽƥǁƐ
0.86	ƣƑƪƥŪƐNj ƒĭƥƣƗǁƐ	1
0.83	ĬƳƑƉƗǀǀŰƐ ƥĭƣƫƗǁƐ	2
0.80	ƦĭƵƟƗǁƐ	3
0.97	ǀǀƐƣƴǁƐ	4
0.88	ĬƬƑĭƥǁƐ ƀƐƣŬƐ üĭNJƨƗ	5
0.77	ĬƯǂƨƗǁƐ ƥNjǂƨǁƐ	6
0.87	ĬƯƐƥƫƉĭƣǁƐ ƥNjǂƨǁƐ NjǴ ǀǀƥƑƪƉǁƐ	7
0.81	ǀĭƟƬǁƐ ƒǆƐNjǀǀƑǴ !ƑƉƗljŰƐ	8
0.97	üǀǀ ƔƐƣŬƐ	

LJöǀ ƘơĂƒƧƙ ƗƪƒƧƥ!ƒ ƖƒƥƉ ƥǴƶǀŪ ƘǴǀƛ!ƒ ƘŭǆǴƶǆ LJƉ (4) ýĂƥƞ LJǆ ƧnjƯŏ

ƘǴǀƛ!ƒ ýǆǴƶǆ Ƹǀǀ Ǵǆǂ Ü"ŎƱǀƪƙ!ƒ ǁĂǁƪ!ƒ" ƥƶǀ! ǴNjǴLjƥƉĂ "ƨŏƽơƙ!ƒ" ƥƶǀ! ǴNjŭƵƉ (0.97-0.77)

.ƗƪƒƧƥ!ƒ ƫöǀƱƙ ƯƒƧƺŪ Ɨ!ĂǀǀǆĂ ƗƶƽƙƧǆ ǆöƥ ŎNjĂ Ü(0.97) ýǂǂ Ɩƒƥū!

:ηĭΘƬƗǁǁ ŀƲšĭƥƯ

ƗǉǤǃǂùƪŬƒ ǤǆǯƊ ÜǑǁƶƼ!ƒ ƔƧƥǆž!ƒ ǁǀĂǁƪ! ǈƧǀƼ (30) ǇǆǎƗǒƑǤǋǉ!ƒ ǤǋǂƧĂƬǀ ƗǉǤǂƪŬƒ ƘǉĂǂǂ

ÜǈƧùǀƼ (21) ƘƺǁǀƼ ƗǒǀƧƺ!ƒ ƗƼư!ƒ ǑƼ ǎƥǀ!ƒ ǈƧǂ ǑǀƵŮ ƧƱǉ ƗǌηĂ ǇǆǎýƲƼǆž!ƒ ƔƧƥǆž!ƒ ǁǀĂǁƪ!

ǈƪùǂƵǤǉƥ ƴùǆž ǈƧùǀƼ!ƒ Ǒùƽ ƥƧùǒ ǤǆǎƨǀǤƱǂ ăƥǆž ǇǤǒǀ! ǈƧǀƼ ýǂ ǎǤǆǎƊ (Ã) ǈƧǤƬǫ ƔǒηǂƪǆǆǇƒ ƴưǒ

ǘùǉǤǒơƊ ÜƘǤùηƧƥ (4) ǘǀ!Ǥƹ ÜƘǤηƧƥ (5) ǘǆǎƑƒƥ :ǑǋĂ ÜǑƪǤǆǎƤ!ƒ ƘƧǂǒ! ǊǒƧƥǂ! ǘǀƼĂ ÜƗǒƬƤƬ!ƒ

ĂơǉǀƒǏǁƵ ƗǒǀǤƪơ!ƒ ƘǤƱƪĂǂǆǎ!ƒ ƻǒǉƬǂ ǎǂ ƥƿĂ ÜƗηƧƥ (1) ǭƥǀƊ ÜƗηƧƥ (2) ǭƧƥǤǉ ÜƘǤηƧƥ (3)

:Ɨǒ!Ǥǂ!ƒ

- ǇǆǎýƿƊ 2.33 ǇǆǎƤǉƼưƗ.
- ǇǆǎƪĂǂƱƗ 3.66-2.33 ǇǆǎƗ.
- ǏǁƵƊ 3.66 ǇǆǎƧǂƶƗ.

:ǀƨƐƥǫǁǁ ǀƐƥĭƩƗƊǎ

:ǗǋǄ ǁƐƥĭƩƗƊǁǁ ǀƨƗǂŝǀ ǋƗƪǆǎǈü:

1 - ƤƊǎ ǁǁǗƳƒ : ǋĭƪƗǆǎü ƳǂĂ ƈƥǤǀ ǀƨƏǀ .

ǎ- ǇǆǎýƿƊ 20 ǤǆƵ ƔǀƧǆǎ 23-20 ƵǤǆ ǁǀ- 27-24 ƵǤǆ ƥ- ƧλǂƊ ǇǆǎƧ 27 ƵǤǆ

2 - ǬǬƳ ƨǎǋƐǀ ǀƒƳǂǁǁ ǀƐƗ ƥǆǎǁǁǁǁƒ ƔǬƑǐƼ ǀǁƑƐǁǁ ǏǁǁǁƑ : ǋĭƪƗǆǎü ƳǂĂ ƈƥǤǀ ǀƨƏǀ :

ǎ- ǇǆǎƪƒĂǉ 3-1 ƘƒĂǉƪ 6-4 - Ɣ ƘƒĂǉƪ 9-7 - ǁǀ ƥ- ƧλǂƊ ǇǆǎƪƒĂǉƘ 9

Ŏùƙ!ƒ ƚǉǠƜƙƪǫ (269) ƳǠƞƧƙƪƒ ǊƙĂ ÜƗƪƒƧƥ!ƒ ƴǆƙƞǆ ƥƒƧƼ ƴǒǆƞ! ƴǆǠƬ!ƒ ƠƪǆƒƗƱƪƒĂƜ ǤǌƙƑƜƶƙ

.ƗƪƒƧƥ!ƒ ƴǆƙƞǆ ǇǆƜ (%98) ƚƜƪǉƜ ŎƑǠƮƠŰƒ ƴǒǇƙ!ƒ Ŏƽ ƘǆƥƤƙƪƒ

:ƜǐƏƑƮƟŰƐ ƜƜƑƴǅƐ

:ƚǒ!Ǡƙ!ƒ ƚǒƑǠƮƠŰƒ ƘǠƞ!Ǡƶǆ!ƒ ǊƒƥƤƙƪƒ Ǌƙ ƗƪƒƧƥ!ƒ ƚƑƪƊ ǇƵ ƚǠƞű!

.ŎǉǠƛ!ƒĂ ƴĂǕƒ ƴƋǠƪƙ!ƒ ǇƵ ƚƜǠƞŰ ƚǒƧǠƶǆ!ƒ ƘǠƽƒƧƠǉǓƒĂ ƚǒƜǠƪƠ!ƒ ƘǠƱƪĂƙǆ!ƒ

.ƗƪƒƧƥ!ƒ ƘƒĂƥƊ ƥǠƶƜƊ ƘǠƜƛ ƩǠǒ! ǠƽƊ ƠƪǠƜǉĂƧƗ

.ƚǒƮƤƬ!ƒ ƘƒƧǒƺƙǆ!ƒĂ ƚǉǒƶ!ƒ ƻ ƮĂ Ŏƽ ƚǒĂƑƙ!ƒ ƳƪǉƜ!ƒĂ ƘƒƧƒƗƙ!ƒ ǊƒƥƤƙƪƒ

.ƥƠƒĂ ƴƜǠƙ ƧǒƺƙǆƜ ǓƘƜƛ!ƒ ƴƋǠƪƙ!ƒ ǇƵ ƚǠƞű! (ANOVA) ǇǒǠƜƙ!ƒ ƴǒǇƠƙ

.ƴƜǠƙ ƧǒƺƙǆƜ ǇƆƙ ƧƛƗƛ ƚ!ƛƛ!ƒ ƴƋǠƪƙ!ƒ ǇƵ ƚǠƞű! (MANOVA) ƥƥƶƙǆ!ƒ ƴǒǇƠƙ!ƒ ƧǠƜƤƒ

.ƚǒƥƶƜ!ƒ ƘǠǉƧǠƽǆ! (scheffe) ƧǠƜƤƒ

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

(5) üNjql

ĬĠYÚ þuťǉ htNJШNj DžDž Ĭ‡yƻǁǁ ƒ þqDžǁǁ pNj‡ƨ qƑyĠǓ htĭþƑĭyDžǁǁ lƑƺƐþΘǉÚƐNj htĭĠƑƨΘǁǁ lƑƯƨNjĐDžǁǁ

htĭĠþƩǁǁ htƻƮǁǁ Ĭƺ !qsǁǁ Ɣþǀ

htШþqǁǁ	htĠĐþǁǁ	ƺ ƐþΘǉÚƐ ăþƑĭyDžǁǁ	Ưƨ NjĐDžǁǁ ĬĠƑƨΘǁǁ	qyĠǁǁ	!ƽþǁǁ
ĐƶƽƙƧǆ	4	0.88	4.22	þĠƬƧÚƒĂ ƔŏƧþƙ!ƒ	1
ĐƶƽƙƧǆ	3	0.77	4.25	ŎƵĠǆƙηǓƒ Ƨŏþǀƙ!ƒ	2
ĐƶƽƙƧǆ	5	0.89	3.97	ƨŏƽƠƙ!ƒ	3
ĐƱƪĂƙǆ	7	1.66	3.52	Đ!ƒþƶ!ƒ	4
ĐƶƽƙƧǆ	1	3.49	4.65	Ŏ ư ĠŏƧ!ƒ ĈƒþǕƒ ýŏnjƪƙ	5
ĐƱƪĂƙǆ	8	0.95	3.50	ŎƱƪƙ!ƒ ǁĂƪ!ƒ	6
ĐƶƽƙƧǆ	6	1.04	3.83	ŎƱƒƧǀǆŏþ!ƒ ǁĂƪ!ƒ ĂD Đ‡ƧĠƬǆ!ƒ	7
ĐƶƽƙƧǆ	2	0.82	4.36	ĐŏƠƮ!ƒ ƔǈƒĂη!Ġh DǆĠǆƙNjǓƒ	8
ĐƶƽƙƧǆ	-	0.56	4.04	(Ĭ‡yƻǁǁ ƒ þqDžǁǁ pNj‡ƨ) ý‡‡ lƒþǕƒ	

ǇĠ‡ Ü(4.65-3.50) ǇŏŁ ƘƠĂƒƧƙ ĐŏŁĠƪƠ!ƒ ƘĠƱƪĂƙǆ!ƒ ǇD (5) ýĂþη Ǉǆ ƧnjƱŏ DǆpƧ þƶŁ!ƒ ĐŏǉĠƛ!ƒ ĐŁƙƧǆ!ĠŁĂ Ü"Ŏ ư ĠŏƧ!ƒ ĈƒþǕƒ ýŏnjƪƙ " Ĭ ǁƵ ƒ ǉŏ ĭ Ʀ!ƒĂ (5) DǆpƧ þƶŁǁ! ĠNjǖƵD ĐŁƙƧǆ!ĠŁĂ Ü(4.36) ƩǁŁ ŎŁĠƪƠ ƱƪĂƙǆŁ "ĐŏƠƮ!ƒ ƔǈƒĂη!ĠŁ DǆĠǆƙNjǓƒ" Ĭ ǁƵ ƒ ǉŏ ĭ Ʀ!ƒĂ (8) (6) DǆpƧ þƶŁ!ƒ lƧŏƤǕƒ ĐŁƙƧǆ!ĠŁĂ Ü"ŎƵĠǆƙηǓƒ Ƨŏþǀƙ!ƒ" Ĭ ǁƵ ƒ ǉƙ Ŏƙ!ƒĂ (3) DǆpƧ þƶŁ!ƒ ĐƛĠƛ!ƒ ĐηƧþŁ ŎNjĂ (4.04) ý‡‡ lƒþǖ! ŎŁĠƪƠ!ƒ ƱƪĂƙǆ!ƒ ƩǁŁĂ Ü"ŎƱƪƙ!ƒ ǁĂƪ!ƒ" Ĭ ǁƵ ƒ ǉŏ ĭ Ʀ!ƒĂ .ĐƶƽƙƧǆ

[illegible]

- [illegible]:

(6) [illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	0.84	4.58	[illegible]	1
[illegible]	4	0.75	4.36	[illegible]	2
[illegible]	3	0.82	4.41	[illegible]	3
[illegible]	7	0.98	4.20	[illegible]	4
[illegible]	2	6.67	4.50	[illegible]	5
[illegible]	9	0.97	4.17	[illegible]	6
[illegible]	7	0.92	4.20	[illegible]	7
[illegible]	10	1.79	3.28	[illegible]	8
[illegible]	6	0.99	4.24	[illegible]	9
[illegible]	5	1.01	4.28	[illegible]	10
[illegible]	-	0.88	4.22	[illegible]	

[illegible] (4.58-3.28) [illegible] (6) [illegible] (1) [illegible] (5) [illegible] (3) [illegible] (4.50) [illegible] (8) [illegible] (4.22) [illegible].

- [illegible]:

(7) [illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	0.99	4.42	[illegible]	1
[illegible]	3	1.04	4.29	[illegible]	2
[illegible]	4	0.93	4.19	[illegible]	3
[illegible]	5	1.12	4.00	[illegible]	4
[illegible]	2	1.55	4.35	[illegible]	5
[illegible]	-	0.77	4.25	[illegible]	

ǕǰŇ (7) ǀƒǰ ǀŎĐ ǓƗǗǾ ƂŅƕǗȈ ǙƇǔǰ (4.42-4.00) Ü ǂǓǀǠ ǃ

ǓǕǿǾ ƕǇǀǓ (1) ǛǔƐǕ ƇǔǀƗǛǗƇ ǓǜƂƐ Ǐ ǙƇǔǰ ǔǀƐǕ ǏǗǦ (1) ǊǗǗǕƞ ǓǖǒǗǓǕ ǂǀǗǗ

ǀŎĐ ǙǓǕǿ ǛǔƐǕ Ǔ" ǃǔǕƞ ƇǔǀƗǛǗƇ ƐǚǝƇǗ (5) ƐǔƂƐ ǏǗǦ ƐǓǕǔǾ " ǏǗǦ ƇǕǀ ƞǔƂǗ ǀǝǕƂǗ

ǃǀƐƔǘ ǃǔǂǗ ǗƐǠ ǃǔǕƟ " ǕǕǚǛǗǓ ǗǖƗǚ ǏǗǦ ǕǓǕǔ (4.35) Ü ǛǕǔƐǗ ƕǂǗǂǗǗ ǃǀǂǕǕ (2)

ǏǗǦ ƐǔǂǕǓ ǙǔǓǕ ǃǀǕ ǏǗǦ ǔǓǕƟ " ǕǕƂǗǚƇ ƕǗǕ ǂǓǓǗǕ ǃǂƐǚǂǕǓǖǀ ƒ (4) ǏǗǦ ǕǗǕ ǕǗǕ

ǏǗǦ ƒ ǃǕǗ " ǃƐǕǗ ǕǕǓ ǃǗǂǓƐǕ ǕǕǓǂ ǕǕǚǕǀ ǀǔǔ ǂƐǚ ǔǓǕǔ ǀǗǗǚ ǗƂƂǔ ǗƂƇǗ

.(4.25) ǕǓǀ ǀƞƂǕǗ ǀǝǂǗǂǓǔ

- :ǗǓǖǓǗǓ

(8) ǗǛǔǕǔ

ǗǓǖǓǗǓ ǕǔǓǗ ǕǔǚǓǖǓǗǓ ǕǔǓǗǓǗǓǗ ǕǔǓǗǓǗǕǗ ǗǓǕǔǕǗǓǗ

ǗǗǗǕǗ	ǗǕǔǗǗ	Ǝ ǚǗǓǗǓǗ ǚǗǓǗǓǗ	Ǝ ǚǗǓǗǓǗ ǚǗǓǗǓǗ	ǗǕǔǗ	ǗǓǗǗ
ǕǗǕǗǗ	1	1.11	4.04	ǗǓǗǓ ǕǔǗǓǕ ǃǀǚƐǕ ǓǕǀǗǗǓ ǕǗǕƂǓǓ ǗǕǕǗ ǀǕǗ ǕǓǗǕǗǕƂ ǕǕǓǚƐǕ ǗǓǗ	1
ǕǗǕǗǗ	2	1.11	4.00	ǕǗǓǗǕ ǓǗǗƐǓǗ ǏǗǦ ǗǓǖǓǗǓ ǕǗǕǗǗǕ ǕǗǓǗ ǕǓǗǗ ǗǓǗǕ ǕǗǓǗ	2
ǕǗǕǗǗ	3	1.12	3.87	ǗǓǗǕǔ ǏǗǦ ǗǕǔǔǕ ǗǕǗǗǗ ǗǓǗǗǗ ǗǕǗǗ ǕǓǗǗǗǗ ǕǗǕ ǗǓǗǗǗ ǗǓǗǗǗ ǕǗǗǗ ǗǓǗǓǗ ǏǗǦ ǕǓǗǕ ǗǓǗǗǓ	3
ǕǗǕǗǗ	-	0.89	3.97	ǗǕǗ ǗǗǕ	

ǕǓǗ (8) ǀƒǰ ǀŎĐ ǓƗǗǾ ƂŅƕǗȈ ǙƇǔǰ (4.04-3.87) Ü ǂǓǀǠ ǃ

ǓǕǿǾ ƕǇǀǓ (1) ǛǔƐǕ ƇǔǀƗǛǗƇ ǓǜƂƐ " ǏǗǦ ƐǓǚǕǗ ƐǓǗǕǗ ǕǕǗǗǓǗ ǂǕǓǗ ǗǓǕ ǂǓǕ ǗǓǗ

ǏǁƵ LJǒŀƵǚ!ƒ ýĂƮơŀ ĎǁŶũǒ " ǏǁƵ ƒ Ljƙ Ǒƙ!ƒĂ (2) ĎǍƨ ƖƨǀƽƖ!ƒ ǂǒǉƙƍ!ƒ ǂŀƙƨĚǐ!ƙĂ Ü"ǐ ƥǉǀǉ!ƒ ƘǉǉƗǂĚǍ

ƖƨùǀƽƖ!ƒ ƖƨǒƤǕƒ ǂŀƙƨĚǐ!ƙĂ Ü(4.00) ǑŀƙǋƠ ƱǋĂƙĎŀ " ǐ ƥǉǉ!ƒ ƖƨƒƥǪ LJĎ ǂǒ!ƙĚ!ƒ ĎǁŶƙǉƥǉǀơƙǋƒ ýǒĎƞ

ǋƑǉùƙǉ ƘǉǋùơƙǉĚǁǂ LJǒŀƵǚ! ǂǒ!ƙĚ!ƒ ƘĐƽǉǂĎ!ƒ ǂĎǒƥ ýƽƨ ǏǁƵ ýĎƶǒ " ǏǁƵ ƒ Ljƙ Ǒƙ!ƒĂ (3) ĎǍƨ

ýùǂǂ ƥùƶŀǁ! ǑŀƙǋùƠ!ƒ ƱǋĂƙĎ!ƒ ƩǁŀĂ Ü" ǐ ƥǉǉǁ! ǂǒƥǉĎ!ƒ ƘǉǉǉǂĎǙƒĂ Ƙƒƨƥǀ!ƒ ƔǋƠ ǏǁƵ ƭǒƨƽ!ƒ

.ǂƶƽƙƨĎ ǂƞƨƥŀ ǑǊĂ (3.97)

- :ŀǁƐƍƴǁƐ

(9) üǊƍǁǁ

ŀǁƐƍƴǁƐ ƍƴǉǁ ŀǐƥƑǐƴĎǁƐ ƖƑƺƐƥƟǁǙƐǊ ŀǐǉƑƨƟǁƐ ƖƑƯƨǊǂĎǁƐ

ŀǁǁƥƍǁƐ	ŀǉǂƥǁƐ	ƹƐƥƟǁǙƐ ăƥƑǐƴĎǁƐ	ƯƨǊǂĎǁƐ ǏǉƑƨƟǁƐ	ƔƥƪƨǁƐ	!ƽƥǁƐ
ǂƱǋĂƙĎ	2	1.91	3.45	LJǒŀƵǚ!ƒ LJĎ ǂƑƱǉƤ!ƒ ƘǉƽƨƮƙ!ƒ LJƷ Ǐ ƯǉƺƙǑ ƖƒƨǉŀĎ!ƒ Ǒƽ ĎǁŶǒǁƵ ƥĎƙƶǒ LJǑƦ!ƒ	1
ǂƱǋĂƙĎ	1	2.44	3.59	LJǒŀƵǚ!ƒ Ǐ!ǫ ƔǒƨƥƙƠ!ƒ Ǒƽ ǋĎƺǉĎƺǊƒ ǋƞĂǒ Ǚ ǂǒƮƤƮ ǂƥǚƵ ǋŀ ĎǁŶƱŀƨƙ LJǑƦ!ƒ	2
ǂƱǋĂƙĎ	-	1.66	3.52	ýǂǂ ƥƶŀ!ƒ	

LJǉùǂ Ü(3.59-3.45) LJǒùŀ ƘùơĂƒƨƙ ǂǒŀƙǋơ!ƒ ƘǉƱǋĂƙĎ!ƒ LJĐ (9) ýĂƥƞ LJĎ ƨǊǗǒ

ǋǁùŀ ĎǁŶƱŀƨƙ LJǑƦ!ƒ LJǒŀƵǚ!ƒ Ǐ!ǫ ƔǒƨƥƙƠ!ƒ Ǒƽ ǋĎƺǉĎƺǊƒ ǋƞĂǒ Ǚ ǏǁƵ ƒ LjƙĂ (2) ĎǍƨ ƖƨǀƽǁƖ! ǉǊǚƵĐ

ƘǉƽƨƮùƙ!ƒ LJùƵ Ǐ ƯǉƺƙǑ" ǏǁƵ ƒ Ljƙ Ǒƙ!ƒĂ (1) ĎǍƨ ƖƨǀƽƖ!ƒ ǂǒǉƙƍ!ƒ ǂŀƙƨĚǐ!ƙĂ Ü"ǂǒƮƤƮ ǂƥǚƵ

ƱǋĂƙĎ!ƒ ƩǁŀĂ5 Ü(3.45) ǑŀƙǋƠ ƱǋĂƙĎŀ " ƖƒƨǉŀĎ!ƒ Ǒƽ ĎǁŶǒǁƵ ƥĎƙƶǒ LJǑƦ!ƒ LJǒŀƵǚ!ƒ LJĎ ǂƑƱǉƤ!ƒ

.ǂƱǋĂƙĎ ǂƞƨƥŀ ǑǊĂ (3.52) ýǂǂ ƥƶŀǁ! ǑŀƙǋƠ!ƒ

- :ĬƯǂƨƗǁǀ ƥǋǂƨǁǀ

(10) üǋǫǛ

ĬƯǂƨƗǁǀ ƥǋǂƨǁǀ ǫyǴǁ ƕǏƥƑǐyǅǁǀ ǐƑǆƥƟǆǛǀǋ ƕǏǴƑƨƟǁǀ ǐƑƯƨǋƉǅǁǀ

ƕǛƥǫǁǀ	ƕǴǂƥǁǀ	ǆƥƟǛǀ ăƥƑǐyǅǁǀ	ƯƨǋƉǅǁǀ ĬǴƑƨƟǁǀ	Ƴƥƫǁǀ	!ƽƥǁǀ
ƗƺƽǨƧǆ	1	0.92	4.21	ƔŏƧƥǩ!ƒ ǄǤǻǛ ǇŏƕƵű!ƒ yǆ ǭƥŏƥT	1
ƗƱƪĂǩǆ	3	1.40	3.25	ƽŏƧƽǁ! ƗǆŏƨǋýǂƥǇƵ ǇŏƕƵű!ƒ ĬǁƵ Ɨŏ!ĂƑƪǆ!ƒ Ŏǁǁŏ	2
ƗƱƪĂǩǆ	2	1.46	3.62	ǇŏƕƵű!ƒ yǆ ǋǁǆǴƶǩ Ŏƽ ƗƕƦǌǆ ƧŏƩ ǾƯǴƽ!Ǆ ǅƥƤǩƪŏ Ǘ ĭƦ!ƒ ƔŏƧƥǩ!ƒ ǄǤǻǛ	3
ƗƱƪĂǩǆ	4	1.56	2.94	ǇǆýǂĬ!ǫ ƔƶǁǆǆǛ!ƒ ǛƧǴƤ ǇǆƗƕƦǌǆ ƧŏƩ ǾƯǴƽ!Ǆ ǅƥƤǩƪŏ ƘǴŏƧǴǆ!ƒ ǄǤǻǛ ǋŏƕƵǕ ǇǆǄƒƥǕƒ Ŏƽ ƧƮǁŏ	4
ƗƱƪĂǩǆ	-	0.95	3.50	ýǂǂ ƥƶƕ!ƒ	

ǇǴùǂ Ü(4.21-2.94) ǇŏùƕƘơĂƒƧǩ ƗŏƕǴƪơ!ƒ ƘǴƱƪĂǩǆ!ƒ ǇǄ (10) ýĂƥƞ ǇǆƧǌǕŏ

ǐƧùǁƽ!ƒ ƗŏǇǴǛ!ƒ ƗƕǩƧǆ!ǴƕĂ Ü" ƔŏƧƥǩ!ƒ ǄǤǻǛ ǇŏƕƵű!ƒ yǆ ǭƥŏƥT " ĬǁƵ ƒ ǇǩĂ (1) ǅƥƧ ǐƧǁƽǁ! ǴǋǘƵǄ

ǄǤùǻǛ ǇŏùƕƵű!ƒ yùǆ ǋǁǆǴƶǩ Ŏƽ ƗƕƦǌǆ ƧŏƩ ǾƯǴƽ!Ǆ ǅƥƤǩƪŏ Ǘ ĭƦ!ƒ " ĬǁƵ ƒ Ǉǩ Ŏǩ!ƒĂ (3) ǅƥƧ

Ŏùǁǁŏ" ĬùǁƵ ƒ ǇùǩŎǩ!ƒĂ (2) ǅƥƧ ǐƧǁƽ!ƒ Ɨǁ!Ǵǁ!ƒ ƗƕǩƧǆ!ǴƕĂ Ü(3.62) ŎƕǴƪơ ƱƪĂǩǆƕ "ƔŏƧƥǩ!ƒ

ƒ ǇǩŎǩ!ƒĂ (4) ǅƥƧ ǐƧǁƽ!ƒ ǐƧŏƤǕƒ ƗƕǩƧǆ!ǴƕĂ Ü" ƽŏƧƽǁ! ƗǆŏƨǋýǂƥǇƵ ǇŏƕƵű!ƒ ĬǁƵ Ɨŏ!ĂƑƪǆ!ƒ

ǄǤǻǛ ǋŏƕƵǕ ǇǆǄƒƥǕƒ Ŏƽ ƧƮǁŏ ǇǆýǂĬ!ǫ ƔƶǁǆǆǛ!ƒ ǛƧǴƤ ǇǆƗƕƦǌǆ ƧŏƩ ǾƯǴƽ!Ǆ ǅƥƤǩƪŏ" ĬǁƵ

.ƗƱƪĂǩǆ ƗƞƧƥƕ ŎǋĂ (3.50) ýǂǂ ƥƶƕǁ! ŎƕǴƪơ!ƒ ƱƪĂǩǆ!ƒ ǆǁƕĂ Ü"ƘǴŏƧǴǆ!ƒ

- ƐǊƊŽǁƓ ƾǋƅ ƩƾǈƔǂƅ ƞǁƔǂƅ ǀƘƅ ƟƾƏƚǆƅ :Ǐ

(11) ǀǍƣƬ

ƐǊƊŽǁƓ ƾǋƅ ƩƾǈƔǂƅ ƞǁƔǂƅ ǀƘƅ ƟƾƏƚǆƅ ƴǍƢƗƅ ƝƾƙǊǁƓǁƅ ƟƾǊƙƾǊƓƾǋƅ ƘƞƙǇǕƅ ƐǊƊŽǁƓ

ƝƾƣƬǆƅ	ƝƢƙƫǆƅ	ƽƾǊƓƾǋǗƅ ƼƾǊƙǈƓǂƅ	ƩƾǈƔǂƅ ƾǋƅ	ƝƾƔƸǆƅ	ƝƾƸǂƅ
ƚƵƽƠǋ	1	1.13	3.96	ƽǍƓǆƅ ƠƾƓǆƅ ƞǈƣǂǇ ƚƽƬƙǂƅ ǃǍƢƳƾǆƅ ƗƾƠƬ ǆƣƬǋ ƳƺƠƓǋ	1
ƚƵƽƠǋ	3	1.19	3.69	ƚǍƔƾǋƅ ǋǋƅ ƚƟƓǇ Ǒǆ ƚƓƳƾǍƾǋ ǃǍƢƳƾǆ ƠƾǇƽ ǋƾƓƘƾǋǆ	2
ƚƵƽƠǋ	2	1.60	3.83	ƝǍƾǋ ǋƾƓǋƢƽƳǋ ƾǍƽ ǃǍƢƳƾǆƅ ƗƾƠƬ ƵƸǍ	3
ƚƵƽƠǋ	-	1.04	3.83	ǋƺƺ ƾƺǋǆƅ	

ǃǍƔƳǋ Ǜ(3.96-3.69) ǃǍƩƩ ƗƊƦƾƸǆƅ ƚǍƢƓǃƽǆƅ ƗƓƟƢƦǋǆƅ ǃƢ (11) ǋƦƾƪ ǃǆ ƸƠƾǋ

Ǜ"ǋƩƽƸ ƠƾƓǆƅ ƞƩƣǂǇ ƚƩƬƙǂƅ ǃǍƩƢƳƾǆƅ ƗƾƠƬ ǆƣƬǋ" Ǐǋƅ ƾ ǋƦǋ (1) ƚƓƟƽǋ ƸƠƓƳǆ ƝƟƢƳƢ

ƟƩǋƦǋƾǋǆ "ƝǍƾǋ ǋƾƓǋƢƽƳǋ ƾǍƽ ǃǍƢƳƾǆƅ ƗƾƠƬ ƵƸǍ" Ǐǋƅ ƾ ǋƽ Ǜƺƾǆ (3) ƚƓƟƽǋ ƸƠƓƳǂƅ ƚƩƙƔƙǋƾǂ ƚƩƾƸǋƓƚǆƦ

ƚƓƳƾǍƾǋ ǃǍƢƳƾǆ ƠƾǇƽ" Ǐǋƅ ƾ ǋƽ Ǜƺƾǆ (2) ƚƓƟƽǋ ƸƠƓƳǂƅ ƸƠƓƽǋƾǂ ƚƩƙƔƙǋƾǂ Ǜ(3.83) ǍƣƢƓƽ

ƚƩƺǇƠǋ ǍƩƾǍƦ (3.83) ǋƺƺ ƾƺǋǆƅ ǍƣƢƓƽǆƅ ƟƩǋƦǋƾǋǆ ƝǋǋƦ Ǜ" ǋƾƓƘƾǋǆ ƚƓƔƾǋƅ ǋǋƅ ƚƟƓ Ǒǆ

.ƚƵƽƠǋ

:ŀŭĭϴ Ƭ ǁǁǫ ƒ ďǫŇǰƜǁƑǴ !ƑĎŽłǰŰǫ -

(12) üŇǫƜ

ǏƯǫƥȿĎŽĭǫǁǫ ƿŇǰǂƨǁǫ Ňǰć ŀǀ ƥƑƪĎŽǁǫ ƍƴǴǁ ŀŭĭƥƑĭƴĎŽǁǫ ƚƑƺƥϴďŰǫŇǰ ŀŭĭǴƑƨϴǁǫ ƚƑƯƨŇǰĐŽǁǫ

ŀƜƥƍǁǫ	ŀǴłƥǁǫ	ƺǫƥϴďŰǫ ăƥƑĭƴĎŽǁǫ	Ưƨ ŇǰĐŽǁǫ ǏǴƑƨϴǁǫ	ƴƥȿƧǁǫ	!ƽƥǁǫ
łƶƽƙƧďž	1	0.92	4.38	ǈǰŏŀƵŭ! łŏơƬ!ƒ ǑơƒĂǈ!Ǵŀ Ďƙǌǰŏ	1
łƶƽƙƧďž	2	0.98	4.35	ǑƿŭƤŰƒ ǁĂǁƪ!Ǵŀ ǉĂŀƵŮ Ďƨƙǁŏ ǈĎ ǏǁƵ ƒ Ƨơŏ łŏƬƤƬ!ƒ ĎǌǰƙǴŏơ Ǒƽ ƥŏďžơ!ƒ	2
łƶƽƙƧďž	-	0.82	4.36	ýłł ƥƶŀ!ƒ	

ǈǴùł Ü(4.38-4.35) ǈǰŏùŀ ƘơĂƒƧƙ łŏŀǴƪơ!ƒ ƘǴƱƪĂƙďž!ƒ ǈĐ (12) ýĂƥƞ ǈďž ƧǌǰƱŏ

ĎžƿƧ ƚƧǀƽ!ƒ łŏǈǴƛ!ƒ łŀƙƧďž!ǴŀĂ Ü"ǈǰŏŀƵŭ! łŏơƬ!ƒ ǑơƒĂǈ!Ǵŀ Ďƙǌǰŏ" ǏǁƵ ƒ ǈƙĂ (1) ĎžƿƧ ƚƧǀƽǁ! ǴŇǰŭƵĐ

ĎǌǰƙǴùŏơ Ǒùƽ ƥùŏďžơ!ƒ ǑùƿŭƤŰƒ ǁĂǁƪ!Ǵŀ ǉĂŀƵŮ Ďƨƙǁŏ ǈĐ ǏǁƵ ƒ Ƨơŏ" ǏǁƵ ƒ ǈƙ Ǒƙ!ƒĂ (2)

łùƞƧƥŀ ǑùŇǰĂ (4.36) ýłł ƥƶŀǁ! ǑŀǴƪơ!ƒ ƱƪĂƙďž!ƒ ƩǁŀĂ Ü(4.35) ǑŀǴƪơ ƱƪĂƙďžŀ "łŏƬƤƬ!ƒ

.łƶƽƙƧďž

ƕƸƮǁǁǈ Ǐƺ !ƣşǁǁǈ ƔƥǀǏƓƳǗ ƥưǆ ƕǋǇǕǇǋ ǅǆǅ üƮƱǅǁǁǈ ƒƥƣǅǁǁǈ ƥǋǂƨ ǌǋǂƨǅ ƑǅǅːǏǆƑǁǁǈ üǈƊƨǁǁǈ

ǗƕǏƓƥƩǁǁǈ

ƘǕƓƞǆ! ǂǒƧƓǒƶǆ!ƒ ƘƓǃƒƧƠǉǕƒǍ ǂǒƕƓƪƠ!ƒ ƘƓƱƪǍǆ!ƒ ƔƓƪƠ ǅǆ ǉƒƋƪ!ƒ ƒƦǋ ǈƵ ǂƕƓƞǘ!

. ǁ!Ʀ ƠưǍǒ (13) ǅƿƧ ǉǍƥƞ!ƒǍ ǉư5ǆ!ƒ ǑưƓǒƧ!ƒ ƔƧƥǆ!ƒ ǁǍǀƪ

(13) üǋƣǁǁ

üƮƱǅǁǁǈ ǏƮƑǏƥǁǁǈ ƒƥƣǅǁǁǈ ƥǋǂƨ ƣƑƔƓǗ ƕǏƥƑǏƔǅǁǁǈ ǀƑƺƥƟƓǗǋ ƕǏƓƑƨƟǁǁǈ ǀƑưƨǋǂǅǁǁǈ

ƕǁǁƥƣǁǁǈ	ƕƓǂƥǁǁǈ	ƺƥƟƓǗǈ ǍƥƑǏƔǅǁǁǈ	ưƨǋǂǅǁǁǈ ǏƓƑƨƟǁǁǈ	ƣƔƓǁǁǈ	!5ƥǁǁǈ
ǂƶ5ǂƧǆ	1	0.61	4.24	ǈǒƕƵǘ!ƒ ƓƒƥǍ ƔǒƧƥǂ!ƓǕ ǅǂǌǒ Ǐƥ!ƒ ǑưƓǒƧ!ƒ ƔƧƥǆ!ƒ ǁǍǀƪ	1
ǂƶ5ǂƧǆ	3	0.77	3.90	ǅǌǂǒƓƵƧǍ ǈǒƕƵǘ!Ɠ ǅǂǌǒ Ǐƥ!ƒ ǑưƓǒƧ!ƒ ƔƧƥǆ!ƒ ǁǍǀƪ ǅǌǂƊ5Ɠǂǆǅ	2
ǂƶ5ǂƧǆ	2	1.01	4.00	ǈǒƕƵǘ!ƒ ǈǒƕ ǂƥǘƶ!Ɠ ǅǂǌǒ Ǐƥ!ƒ ǑưƓǒƧ!ƒ ƔƧƥǆ!ƒ ǁǍǀƪ ƨǒƠǂ!ƒ ǅƥƵǍ	3
ǂƶ5ǂƧǆ	4	1.02	3.84	ƦƓƤǂƓ ǈǒƕƵǘ!ƒ ǁƒƧƮƑ ǅǂǌǒ Ǐƥ!ƒ ǑưƓǒƧ!ƒ ƔƧƥǆ!ƒ ǁǍǀƪ ƘƒƧƒƧ!ƒ	4
ǂƱƪǍǂǆ	5	0.95	3.65	ǉƥƧ5ǆƕ ƘƒƧƒƧ!ƒ ƧƒƥƮƑ ǅǂǌǒ Ǐƥ!ƒ ǑưƓǒƧ!ƒ ƔƧƥǆ!ƒ ǁǍǀƪ	5
ǂƶ5ǂƧǆ	-	0.60	3.97	(üƮƱǅǁǁǈ ƒƥƣǅǁǁǈ ƥǋǂƨ) ǉǂǂ ǀƥǕƒ	

ǈƓùǂ Ü(4.24 -3.65) ǈǒùƕ ƘƠǍƒƧǂ ǂǒƕƓƪƠ!ƒ ƘƓƱƪǍǂǆ!ƒ ǈǅ (13) ǉǍƥƞ ǈǆ ƧǌǕǒ

ƓƒƥǍ ƔǒƧƥù!Ɠ ǅǂùǌǒ Ǐƥù!ƒ ǑùưƓǒƧ!ƒ ƔƧƥùǆ!ƒ ǁǍǀƪ " ǏǁƵ ƒ ǈǒǍ (1) ǅƿƧ ƥƶǁ! ƓǋǘƵǅ

ǅǂùǌǒ Ǐƥ!ƒ ǑưƓǒƧ!ƒ ƔƧƥǆ!ƒ ǁǍǀƪ" ǏǁƵ ƒ ǈǂ Ǒǂ!ƒǍ (3) ǅƿƧ ƥƶǁ!ƒ ǂǒǈƓǁ!ƒ ǂǁƧǆ!ƓǍ Ü"ǈǒƕƵǘ!ƒ

(2) ǅùƿƧ ƥùƶǁ!ƒ ǂǁ!Ɠǁ!ƒ ǂǁƧǆ!ƓǍ Ü(4.00) ǑƕƓƪƠ ƱƪǍǂǆƕ "ƨǒƠǂ!ƒ ǅƥƵǍ ǈǒƕƵǘ!ƒ ǈǒƕ ǂƥǘƶ!Ɠ

[illegible] (5) [illegible] (3.90) [illegible] (3.97) [illegible]

[illegible]

[illegible]

- [illegible]:

[illegible] (14)

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	0.80	4.50	[illegible]	1
[illegible]	3	0.86	4.23	[illegible]	2
[illegible]	2	0.79	4.39	[illegible]	3
[illegible]	5	1.00	4.11	[illegible]	4
[illegible]	4	0.99	4.16	[illegible]	5
[illegible]	6	1.06	4.07	[illegible]	6
[illegible]	-	0.61	4.24	[illegible]	

[illegible] (4.50-4.07) [illegible] (14) [illegible] (1) [illegible] (3) [illegible] (2) [illegible] (4.39) [illegible] (6) [illegible] (4.23) [illegible] (4.24) [illegible].

- [illegible] :

(15) [illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	4	1.13	3.91	[illegible]	1
[illegible]	5	1.06	3.87	[illegible]	2
[illegible]	5	1.13	3.87	[illegible]	3
[illegible]	7	1.26	3.74	[illegible]	4
[illegible]	3	1.48	4.09	[illegible]	5
[illegible]	1	1.09	4.28	[illegible]	6
[illegible]	2	0.96	4.14	[illegible]	7
[illegible]	8	1.42	3.30	[illegible]	8
[illegible]	-	0.77	3.90	[illegible]	

ǈǴùǂ Ü(4.28-3.30) ǈǑùƸ ƘơǍƒƧƙ ǂǒƸǴƪơ!ƒ ƘǴƱƪǍƙǆ!ƒ ǈƊ (15) ýǍƥƞ ǈǆ ƧǌǕǒ

ǂùǒǇǴλ!ƒ ǂƸƙƧǆ!ǴƸǍ Ü" ƖƥơƒǍ ƖƥơǍǂ ǋǆǂ ƽǒƧƺ!ƒ ƱƸƒƧƙƸ ǆƙǌǒ " ǏǆƵ ƒ ǉƙǍ (6) ǅƿƧ ƖƧǀƺǆ! ǴǌǖƵƊ

Ʊùƪ ǍƙǆƸ "ƽǒƧƺǆ! ǑƵǴǆƞ!ƒ ƔƶǆǛ!ƒ Ǒƻ ǉƧǍƥ ƔƵǕ ýǂ! ƠưǍǒ " ǏǆƵ ƒ ǉƙ Ǒƙ!ƒǍ (7) ǅƿƧ ƖƧǀƺ!ƒ

ǈƊ ǏùǆƵ ǈǑùƸƵǖ!ƒ ýƞƬǒ " ǏǆƵ ƒ ǉƙ Ǒƙ!ƒǍ (5) ǅƿƧ ƖƧǀƺ!ƒ ǂλ!Ǵλ!ƒ ǂƸƙƧǆ!ǴƸǍ Ü(4.14) ǑƸǴƪơ

ǆǍùǀǒ " ǏǆƵ ƒ ǉƙ Ǒƙ!ƒǍ (8) ǅƿƧ ƖƧǀƺ!ƒ ƖƧǒƤǕƒ ǂƸƙƧǆ!ǴƸǍ Ü(4.09) ǑƸǴƪơ Ʊƪ ǍƙǆƸ " ǋƸ ƒǍǀλǒ

ƥùƶƸǆ! ǑƸǴƪùơ!ƒ Ʊƪ Ǎƙǆ!ƒ ƩǆƸǍ Ü" ǆǌǉƸ ǂƱǒơǆ!ƒ ǂƑǒƸ!ƒ ǏǆƵ ƻ ƧƶƙǆǛ! ǆǌ!ƨǴǉǆ Ǒƻ ǈǑƸƵǖ!ƒ ƖƧǴǒƨƸ

.ǂƶƺƙƧǆ ǂƞƧƥƸ ǑǋǍ (3.90) ýǂǂ

- ƿǋǂƨ ƒƥƍǆǁ ƒƤƟƥǁ ă ƤǁǃǏ !ǂǋƮ ƸƺǖƴǁƑǴ ǆƮǴ ǆƮǴƳǖǁ ǂǍǋǊ !ƍƳǌ ƦƮƟǁ:

(16) üǋƍǁ

ƸƺǖƴǁƑǴ !ǂǋƮ ăƤǁ ǏƬƑƮƥǁ ƒƥƍǆǁ ƿǋǂƨ ƍƴǴǁ ƸƮƥƑƮƴǆǁ ǀƑƺƥƟǆǕǂǋ ƸƮǴƑƨƟǁ ǀƑƯƨǋǂǆǁ

ƦƮƟǁ !ƍƳǌ ǆƮǴƳǖǁ ǆƮǴ

ƸǁƥƍǁƋ	ƸǴǂƥǁ	ƩƐƥƟǕƐ ăƥƑƮƴǆǁ	ƯƨǋǂǆǁǏǴƑƨƟǁ	ƔƥƽƧǁ	!ƺƥǁ
ǂƶƺƙƧǆ	1	1.04	4.10	ǴǴǌǉǋ ǍƊ ǂǒǍƪƙ Ǒƻ ƽǒƧƺ!ƒ ǴǴưƵƊ ƥƵǴƪǒ ǆǌǉǒƸ ƘǴƵƨǴǉǆ!ƒ ǍƊ ƘǴƵƒƧƬ!ƒ	1
ǂƶƺƙƧǆ	2	1.34	3.91	ƧǍǆǕƒ ƯƶƸ Ǒƻ ǋǒƻ ǈǑƸƵǖ!ƒ ǏƊƧ ǈƵ Ƨƪƺƙƪǒ ƔǒƧƥƙ!ƒ Ǒƻ ǂǆǴǌ!ƒ	2
ǂƶƺƙƧǆ	-	1.01	4.00	ýǂǂ ƥƶƸ!ƒ	

ǈǴùǂ Ü(4.10-3.91) ǈǑùƸ ƘơǍƒƧƙ ǂǒƸǴƪơ!ƒ ƘǴƱƪǍƙǆ!ƒ ǈƊ (16) ýǍƥƞ ǈǆ ƧǌǕǒ

ǍƊ ƘǴƵƒƧƬù!ƒ ǴǴùǌǉǋ ǍƊ ǂǒǍƪƙ Ǒƻ ƽǒƧƺ!ƒ ǴǴưƵƊ ƥƵǴƪǒ " ǏǆƵ ƒ ǉƙǍ (1) ǅƿƧ ƖƧǀƺǆ! ǴǌǖƵƊ

ǏƊƧ ǈùƵ Ƨƪùƺƙƪǒ " ǏùǆƵ ƒ ǉùƙ Ǒƙ!ƒǍ (2) ǅƿƧ ƖƧǀƺ!ƒ ǂǒǉǴλ!ƒ ǂƸƙƧǆ!ǴƸǍ Ü" ǆǌǉǒƸ ƘǴƵƨǴǉǆ!ƒ

Ʊù ʅĂƙdž!ƒ Ƹùǃƕ Ă Ü(3.91) ǑƕǴ ʅùơ Ʊù ʅĂƙdžƕ " ƔŏƧƥƙ!ƒ Ŏ5 ǂdžǴǌ!ƒ ƧĂdžǕƒ Ư ƶƕ Ŏ5 ǇŏƕƵǖ!ƒ

.ǂƶ5ƙƧdž ǂŋƧƥƕ ǑǋĂ (4.00) ý‡‡ ƥƶƕǃ! ǑƕǴ ʅơ!ƒ

: ʅ ƐƥƐƥƨǁƐ ƤƑǇǂƑǴ ǅǏǴƳǘǁƐ ƥƐƥ ʅǡǴ !ǂǋǏ ăƤǁƐ Ǐ Ƭ ƑǏƥǁƐ ƒ ƥơǅǁƐ ƥǋ‡ƨ -

(17) ü ǋơǁǁ

ǅǏǴƳǘǁƐ ƥƐƥ ʅǡǴ !ǂǋǏ ăƤǁƐ Ǐ Ƭ ƑǏƥǁƐ ƒ ƥơǅǁƐ ƥǋ‡ƨ ơƴǴǁ ƕǏƥƑǏƴǅǁƐ ʅ Ƒʒ ƐƥƟǜǛƐǋ ƕǏǴƑƨƟǁƐ ʅƑƯ ƨǋǂǅǁƐ

ʅ ƐƥƐƥƨǁƐ ƤƑǇǂƑǴ

ƕǁǁƥơǁƐ	ƕǴǂƥǁƐ	Ƹ ƐƥƟǜǛƐ ăƥƑǏƴǅǁƐ	Ư ƨ ǋǂǅǁƐ ǏǴƑƨƟǁƐ	ƔƥƨƧǁƐ	!5ƥǁƐ
ǂƶ5ƙƧdž	1	1.05	3.99	ǂdžǌdž!ƒ ƧĂdžǕƒ Ư ƶƕ Ŏ5 ǇŏƕƵǖ!ƒ ǅƒƧǓ ƴdžƙ ʅŏ	1
ǂƶ5ƙƧdž	2	1.21	3.68	ǅǌ ʅ5Ǉǆƕǅǌǅƒƥǋǅƥŏƥơƙ ǂŏƧơ ǇŏƕƵǖ! ǁƧƙŏ	2
ǂƶ5ƙƧdž	-	1.02	3.84	üǁǁ ơƴǴǁƐ	

ǇǴù‡ Ü(4.99-3.68) Ǉŏùƕ ƘơĂƒƧƙ ǂŏƕǴ ʅơ!ƒ ƘǴƱ ʅĂƙdž!ƒ Ǉǅ (17) ýĂƥŋ Ǉdž ƧǌǕŏ

ǂùƕƙƧdž!ǴƕĂ Ü"ǂdžǌdž!ƒ ƧĂdžǕƒ Ư ƶƕ Ŏ5 ǇŏƕƵǖ!ƒ ǅƒƧǓ ƴdžƙ ʅŏ" Ǐ ǁƵ ƒ ǉƙĂ (1) ǅƥƧ ǀƧǀ5ǃ! ǴǋǖƵǅ

Ʊù ʅĂƙdžƕ "ǅǌ ʅù5Ǉǆƕǅǌǅƒƥǋǅƥŏƥơƙ ǂŏƧơ ǇŏƕƵǖ! ǁƧƙŏ" Ǐ ǁƵ ƒ ǉƙ Ǒƙ!ƒĂ (2) ǅƥƧ ǀƧǀ5!ƒ ǂŏǉǴǅ!ƒ

.ǂƶ5ƙƧdž ǂŋƧƥƕ ǑǋĂ (3.84) ý‡‡ ƥƶƕǃ! ǑƕǴ ʅơ!ƒ Ʊ ʅĂƙdž!ƒ Ƹǃƕ Ă Ü(3.68) ǑƕǴ ʅơ

- ƿǸǂƨ ƒƥǡƽǎǁǁ Ǐ Ƭƒǐƥǁǁ ǎƤǁǁ !ƗǸǐ ƥǫƬǡǦ ǀ ƺƥƺƥƨǁǁ ƥǡƻǎǦ ǀǸǡ:

(18) üǸǡǁǁ

ǁǁƥǸƻǁǁ ǀ ƒǔƨǸǁǁ ǀƸƥǁǁ ǀƺƥƗƻƥƽǎǁǁ ǀǸǁǁ ƥǐƒǐǎǁǁ ǀƸƥǁǁ ǁǁǸǡǁǁ ƿǸǂƨ ƒƥǡƽǎǁǁ Ǐ Ƭƒǐƥǁǁ ǎƤǁǁ !ƗǸǐ ƥǫƬǡǦ ǀ ƺƥƺƥƨǁǁ ƥǡƻǎǦ ǀǸǡ

ǀǁǁƥǡǁǁ	ǀǦƗƥǁǁ	ƺƥƟǂǗƺ ǎƥƒǐǎǁǁ	ƱƨǸƗǎǁǁ ǏǦƒƨƟǁǁ	ƔƥƨƻǁǁƗ	!ƽƥǁǁ
ƗƶƽƙƧǆ	1	1.12	4.00	ƘƒƧƒƧ!ƒ Ʊƶǁ Ǒƽ ƨǒƧƽ!ƒ ǅǦ ư Ƶǁǁ ƧǒƬƙƪǒ ƗǆǦǆ!ƒ	1
ƗƱƪǍƙǆ	2	1.20	3.56	ǇƙƒƧƒƧp ǍǁǁǇƗǍǁǁƪ ƔǦƪǁǁ ƟƧƬǒ ǇǁǁýǍǦơǒ Ǔ ǇǒǁǁƵǖ!	2
ƗƱƪǍƙǆ	3	1.39	3.39	Ǔ Ɨǀǒ ƧƱǁǁ ǇƙƒƥǦƬƧǫǍ ǇƙǦǆǒǁǁƶƙ ǅǦƱƵǫ ýǍǦơǒ ƧǦƪƽƙƪǕƒǍ ƗƬpǦǆǁǁ! ƗƬƧƽ ǇǒǁǁƵǖ! ǑƱƶƙ	3
ƗƱƪǍƙǆ	-	0.95	3.65	ýƗƗ ƥƶǁǁ!ƒ	

ǇǦù ƗÜ(4.00-3.39) ǇǒùǁǁƘơǍƒƧƙ ƗǒǁǁǦƪơ!ƒ ƘǦƱƪǍƙǆ!ƒ ǇǁǁǁǁƟ (18) ýǍƥƞ ǇǆƧǆǕǒ

Ü" Ɨùǆǁǁǁ!ƒ ƘƒƧƒƧù!ƒ Ʊùƶǁǁ Ǒƽ ƨǒƧƽ!ƒ ǅǦ ư Ƶǁǁ ƧǒƬƙƪǒ " ǏǁǁƵ ƒ ǁǁǍ (1) ǁǁpƧ ǀƧǀƽǁǁ! ǦǸǖƵǁǁ

ǇùƙƒƧƒƧp ǍǁǁǇƗǍǁǁƪ ƔǦƪǁǁ ƟƧƬǒ ǇǁǁýǍǦơǒ Ǔ ǏǁǁƵ ƒ ǁǁ Ǒƙ!ƒǍ (2) ǁǁpƧ ǀƧǀƽ!ƒ ƗǒǁǁǦ!ƒ ƗǁǁƙƧǆ!ǦǍ

ýǍǦùơǒ " ǏǁǁƵ ƒ ǁǁ Ǒƙ!ƒǍ (3) ǁǁpƧ ǀƧǀƽ!ƒ ǀƧǒPǕƒ ƗǁǁƙƧǆ!ǦǍ Ü(3.56) ǑǁǁǦƪơ Ʊƪǁǁǆǁǁ "ǇǒǁǁƵǖ!

ƺùǁǁǍ Ü"ƧǦƪùƽƙƪǕƒǍ ƗƬùpǦǆǁǁ! ƗùƬƧƽ ǇǒǁǁƵǖ! ǑƱƶƙ Ǔ Ɨǀǒ ƧƱǁǁ ǇƙƒƥǦƬƧǫǍ ǇƙǦǆǒǁǁƶƙ ǅǦƱƵǫ

.ƗƱƪǍƙǆ ƗƞƧƥǁǁ ǑǸǍ (3.65) ýƗƗ ƥƶǁǁ! ǑǁǁǦƪơ!ƒ ƱƪǍƙǆ!ƒ

[illegible]

[illegible]

[illegible]

- [illegible]:

[illegible]

[illegible]

[illegible]

(ANOVA) [illegible] (MANOVA) [illegible]

[illegible]

[illegible]:

[illegible] (19)

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.60	4.25	85	[illegible] 20 [illegible]	[illegible]	[illegible]
0.57	4.25	79	[illegible] 23-20		
0.62	4.37	55	[illegible] 27-24		
0.64	4.08	50	[illegible] 27 [illegible]		
0.64	4.21	196	[illegible] 3-1 [illegible]	[illegible]	
0.45	4.40	46	[illegible] 6-4		
0.61	4.04	14	[illegible] 9-7		
0.52	4.45	13	[illegible] 9 [illegible]		
0.67	4.26	119	[illegible] 3-1 [illegible]	[illegible]	

0.48	4.27	83	ƘƒĂǉʅ 6-4	ƼĭƥƧǁǁ Ĭʒ	
0.64	4.20	40	ƘƒĂǉʅ 9-7		
0.63	4.13	27	ƘƒĂǉʅ 9 ǇǆǕ ƨʎǂƊ		
0.64	4.28	111	ǇĂƥ ǴǆƼ ǂǆǴƵ ǂõĂǉǴʎ	ĬƊǅǂƴǁǁ üǉǰƊƊǅǁǁ	
0.66	4.34	58	ƊĭĂǁǃƥ		
0.53	4.15	88	ƩĂőƨĂ!Ǵǂƅ		
0.52	4.06	12	ǴőǇƵ ƘǴʅƒƨƥ		
0.69	3.92	85	ƊǴƵ 20 ǇǆǕ ýpƊ	ƥƊǆƴǁǁ	ƒƥǫƊǅǁǁ ƿǋǂƨ ăǷǁǁ Ĭ ƬƑĭƥǁǁ ƊĭǴ ƅƽǘƴǁƑǴ !ǂǋĭ ƊĭǴƳǘǁǁ !ǋĦƑƳƥǋ !ǋƉʒƑǀƊǅǋ
0.80	3.95	79	ƊǴƵ 23-20		
0.78	3.94	55	ƊǴƵ 27-24		
0.82	3.76	50	ƊǴƵ 27 ǇǆǕ ƨʎǂƊ		
0.76	3.86	196	ƘƒĂǉʅ 3-1 ǇǆǕ	ƒƴǂǁǁ ǈƐǋǆƨ ǫǫƳ ƒƥǫƊǅǁǁ ƔǫƑĭƽ ǈƟǂ ĬǁƑƟǁǁ	
0.74	4.05	46	ƘƒĂǉʅ 6-4		
0.94	3.70	14	ƘƒĂǉʅ 9-7		
0.71	4.15	13	ƘƒĂǉʅ 9 ǇǆǕ ƨʎǂƊ		
0.74	3.93	119	ƘƒĂǉʅ 3-1 ǇǆǕ	ƒƴǂǁǁ ǈƐǋǆƨ ǫǫƳ ƼĭƥƧǁǁ Ĭʒ	
0.71	3.93	83	ƘƒĂǉʅ 6-4		
0.83	3.86	40	ƘƒĂǉʅ 9-7		
0.96	3.72	27	ƘƒĂǉʅ 9 ǇǆǕ ƨʎǂƊ		
0.75	3.97	111	ǇĂƥ ǴǆƼ ǂǆǴƵ ǂõĂǉǴʎ	ĬƊǅǂƴǁǁ üǉǰƊƊǅǁǁ	
0.80	3.92	58	ƊĭĂǁǃƥ		
0.78	3.80	88	ƩĂőƨĂ!Ǵǂƅ		
0.62	3.92	12	ǴőǇƵ ƘǴʅƒƨƥ		

1.02	4.13	85	[illegible] 20 [illegible]	[illegible]	[illegible]
1.04	4.05	79	[illegible] 23-20		
0.97	4.03	55	[illegible] 27-24		
0.94	3.68	50	[illegible] 27 [illegible]		
0.95	3.94	196	[illegible] 3-1 [illegible]	[illegible]	
1.16	4.30	46	[illegible] 6-4		
1.10	3.86	14	[illegible] 9-7		
1.18	3.96	13	[illegible] 9 [illegible]		
1.02	4.13	119	[illegible] 3-1 [illegible]	[illegible]	
0.95	3.99	83	[illegible] 6-4		
0.92	3.90	40	[illegible] 9-7		
1.20	3.65	27	[illegible] 9 [illegible]		
0.93	4.02	111	[illegible]	[illegible]	
1.23	4.11	58	[illegible]		
0.98	3.91	88	[illegible]		
0.84	3.96	12	[illegible]		
1.00	3.84	85	[illegible] 20 [illegible]	[illegible]	[illegible]
1.03	3.85	79	[illegible] 23-20		
0.96	4.04	55	[illegible] 27-24		
1.07	3.60	50	[illegible] 27 [illegible]		
1.02	3.79	196	[illegible] 3-1 [illegible]	[illegible]	
0.95	4.20	46	[illegible] 6-4		
1.15	3.61	14	[illegible] 9-7		
0.92	3.54	13	[illegible] 9 [illegible]		

0.95	3.97	119	[illegible] 3-1 [illegible]	[illegible]	
1.05	3.80	83	[illegible] 6-4		
1.00	3.85	40	[illegible] 9-7		
1.13	3.37	27	[illegible] 9 [illegible]		
1.01	3.74	111	[illegible]	[illegible]	
1.09	3.94	58	[illegible]		
0.97	3.96	88	[illegible]		
0.96	3.33	12	[illegible]		
0.80	3.71	85	[illegible] 20 [illegible]	[illegible]	[illegible]
1.07	3.75	79	[illegible] 23-20		
0.99	3.60	55	[illegible] 27-24		
0.94	3.45	50	[illegible] 27 [illegible]		
0.95	3.63	196	[illegible] 3-1 [illegible]	[illegible]	
0.88	3.91	46	[illegible] 6-4		
1.25	3.19	14	[illegible] 9-7		
0.74	3.54	13	[illegible] 9 [illegible]		
0.93	3.67	119	[illegible] 3-1 [illegible]	[illegible]	
0.97	3.77	83	[illegible] 6-4		
0.88	3.66	40	[illegible] 9-7		
1.05	3.20	27	[illegible] 9 [illegible]		
0.96	3.52	111	[illegible]	[illegible]	
0.95	3.78	58	[illegible]		
0.93	3.78	88	[illegible]		
0.89	3.28	12	[illegible]		

0.57	3.99	85	ĎĜŻ 20 ǈĴǎ ýþĎ	þĎžýĦĚ	üĦĦ ǫyĜĦĚ
0.62	4.01	79	ĎĜŻ 23-20		
0.60	4.03	55	ĎĜŻ 27-24		
0.59	3.78	50	ĎĜŻ 27 ǈĴǎ Ƨλǂ Ď		
0.59	3.93	196	ƘƒĂǉǋ 3-1 ǈĴǎ	ƒyǂĦĚ ǐĚNjǎƨ ǫǫY ƒþǫĎžĦĚ ƔǫƑĩƽ ǐΘǂ ĬĦƑΘĦĚ	
0.53	4.17	46	ƘƒĂǉǋ 6-4		
0.80	3.73	14	ƘƒĂǉǋ 9-7		
0.50	4.07	13	ƘƒĂǉǋ 9 ǈĴǎ Ƨλǂ Ď		
0.59	4.01	119	ƘƒĂǉǋ 3-1 ǈĴǎ	ƒyǂĦĚ ǐĚNjǎƨ ǫǫY ƼĭþƧĦĚ Ĭʒ	
0.53	4.00	83	ƘƒĂǉǋ 6-4		
0.62	3.93	40	ƘƒĂǉǋ 9-7		
0.74	3.72	27	ƘƒĂǉǋ 9 ǈĴǎ Ƨλǂ Ď		
0.60	3.98	111	ǈĴĂþ Ĝǎƽ ǂǎĜŻ ǂŏĂǉĜλ	ĬĎǂyĦĚ üǉǰĎĎžĦĚ	
0.65	4.04	58	ĎĭĂĦþ		
0.57	3.92	88	ΣĂŏƧĂ!Ĝǂ		
0.49	3.81	12	ĜŏĦŻ ƘĜǋƒƧþ		

ǂǋƒƧþ!ƒ ǂǉŏŻ þƒƧƽĎ ƘĜĦĜɳƍ ƘĜƱǋĂǩǎ Ŏƽ ǂŏƧNjĜǓ ƪĂƧƽ þĂɳĂ (19) ýĂþɳ!ƒ ǈĴǎ ƧnjǓŏ

ǓŎ!Ĝùơ!ƒ ƔƧþǎž!ƒ ǉþĜŏþ Ƙơǩ Ɣƶĳ!ƒ ƘƒĂǉǋ þþŻ ǓƧǎž!ƒ) ƘƒƧŏʓǩǎž! Ǘƶǩ ǂǋƒƧþ!ƒ þĜƶĎ ƴŏǎžɳ ĬĳŻ

Ďĭùǩ ƪĂƧùƽ!ƒ Ħùĳǩ! ǂŏƑĜƬơǗƒ ǂ!Ǚþ!ƒ ǂƽƧƶǎž!Ă Ǔ(Ŏǎžĳƶ!ƒ ýNjƋǎž!ƒ ǓƪŏƧƽ!ƒ Ŏƽ Ɣƶĳ!ƒ ƘƒĂǉǋ þþŻ

.Ħ!Ʀ ǈĴŏĦŏ (20) ýĂþɳ!ƒĂ ǓǂǋƒƧþ!ƒ þĜƶĎ ƴŏǎžɳ ĬĳŻ (MANOVA) þþƶǩǎž!ƒ ǈĴŏĜǩ!ƒ ýŏĳơǩ ƪŏĦƱǩ

(20) [illegible]

[illegible] (MANOVA)[illegible]
([illegible])

[illegible]	F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.054	2.577	0.919	3	2.756	[illegible]	[illegible]
0.480	0.828	0.482	3	1.447	[illegible]	
0.298	1.234	1.237	3	3.711	[illegible]	
0.227	1.458	1.432	3	4.297	[illegible]	
0.769	0.378	0.332	3	0.997	[illegible]	
0.032	2.968	1.058	3	3.175	[illegible]	[illegible]
0.061	2.483	1.447	3	4.341	[illegible]	
0.151	1.783	1.788	3	5.363	[illegible]	
0.028	3.076	3.022	3	9.067	[illegible]	
0.133	1.883	1.657	3	4.972	[illegible]	
0.706	0.467	0.166	3	0.499	[illegible]	[illegible]
0.468	0.850	0.495	3	1.485	[illegible]	
0.292	1.250	1.254	3	3.761	[illegible]	
0.048	2.674	2.627	3	7.881	[illegible]	
0.210	1.519	1.337	3	4.010	[illegible]	

0.084	2.236	0.797	3	2.391	[illegible]	[illegible]
0.345	1.113	0.648	3	1.945	[illegible]	
0.859	0.253	0.254	3	0.762	[illegible]	
0.126	1.924	1.891	3	5.672	[illegible]	
0.136	1.864	1.640	3	4.921	[illegible]	
		0.356	256	91.257	[illegible]	[illegible]
		0.583	256	149.175	[illegible]	
		1.002	256	256.628	[illegible]	
		0.982	256	251.494	[illegible]	
		0.880	256	225.284	[illegible]	
			268	99.241	[illegible]	[illegible]
			268	157.071	[illegible]	
			268	272.749	[illegible]	
			268	277.803	[illegible]	
			268	243.252	[illegible]	

* [illegible] ($0.05 \geq \alpha$).

[illegible] (20) [illegible] ($0.05 \geq \alpha$) [illegible]

ǏǁŽ (0.05≥ α) ŀ!Ǔþ!ƒ ăĂƙʅǆ þǉŽ ŀǒƑǴƬơǫ ŀ!Ǔþ ƘƒƦ ƽĂƧƼ þĂƞĂ ƝƑǴƙǉ!ƒ ƘƧǌƲĐĂ

þþŽ Ƨǒƺƙǆǁ! ǴƶƕƘ ƘƒƧƒƧǀ!ƒ ƦǴƤƘǴƕ ǇǒƕƵǚ!ƒ ǁƒƧƬƎƕ ǅƙǌǒ ǐƦ!ƒ ǑưǴǒƧ!ƒ ƔƧþǆ!ƒ ǁĂǁʅ þƶƕ

.ƽǒƧƽ!ƒ ǑƼ ƔƶǁƒƘĂǉʅ

ǁĂǁʅ þƶƕ! ƽǒƧƽ!ƒ ǑƼ ƔƶǁƒƘĂǉʅ þþŽ ƧǒƺƙǆǏǁŽ ŀǒƑǴƬơǗƒ ŀ!Ǔþ!ƒ ƴþƒĂǆ ŀƼƧƶǆ!Ă

ƧǴƕƙƤƒ ƽǒƕƱƙ ǅƙ ƘƒƧƒƧǀ!ƒ ƦǴƤƘǴƕ ǇǒƕƵǚ!ƒ ǁƒƧƬƎƕ ǅƙǌǒ ǐƦ!ƒ ýưƽǆ!ƒ ǑưǴǒƧ!ƒ ƔƧþǆ!ƒ

:ǑǁǒǴǆŧ (scheffe)

(21) üǋǫǁǁ

ǏǁƑƟǁƐ ƒþǫǅǁƐ ƔǫƑĭƽ ǀƟŧ ƒƴǂƐ ǀƐǋǆƨ ǫǫƳ þĭƸŀǅ Ăǂƴ ƼǋþƧǁƐ ǅƳ ƺʅǀǂ (scheffe) þƑǴǂǁǆ ƼĭǴƯŀ ƛƏƑŀǆ

ǅĭǴƳǘǁƐ ƄƐǫǈǋ ƒþǫŀǁƑǴ !ŀǋĭ ăƤǁƐ üƬƧǅǁƐ ƒþǫǅǁƐ ƥǋǂƨ ǫƴǴǁ

9 ǅǅǅ þƙǀǂ ǀƐǋǆƨ	9-7 ǀƐǋǆƨ	6-4 ǀƐǋǆƨ	3-1 ǅǅǅ ǀƐǋǆƨ	ǏǴƑƨƟǁƐ ƯƨǋŀǅǁƐ	ǌǋŀƨǅǁƐ
-0.24	0.17	-0.19	-	4.21	ǀƐǋǆƨ 3-1 ǅǅǅ
-0.05	*0.36	-		4.40	ǀƐǋǆƨ 6-4
-0.41*	-			4.04	ǀƐǋǆƨ 9-7
-				4.45	ǀƐǋǆƨ 9 ǅǅǅ þƙǀǂ

.(0.05= **α**) ƕǁǗǫǁǁƐ ǌǋŀƨǅ ǫǆƳ ƑĭƏƑƬƟǅ ƕǁƐǫ ƼǋþƧǁƐ*

ǅƙǌǒ ǐƦ!ƒ ýưƽǆ!ƒ ǑưǴǒƧ!ƒ ƔƧþǆ!ƒ ǁĂǁʅ þƶƕ ǏǁŽ ƽĂƧƽ!ƒ ƴþƒĂǆ Ǉǅ (21) ýĂþƞ!ƒ ǇǆƧǌƲǒ

ǇǒƕƘǉǴŧ Ǒ!ǴơǃƒƔƧþǆ!ƒ ǀþǴǒþ Ƙơƙ ƔƶǁƒƘĂǉʅ þþŽ Ƨǒƺƙǆ! ǴƶƕƘ ǇǒƕƵǚ!ƒ ǅƒþĐĂ ƔƧþƙ!ǴƕƱʅĂƙǆ!ƒ ƸǁǁƕŀǒơǓ(ƘƒĂǉʅ 6-4) ŀƑƼ!ƒ Ơ!ǴƬ!Ă (ƘƒĂǉʅ 6-4 ƴǆ ƘƒĂǉʅ 9-7) ǇǒƙƑƼ!ƒ

Ǔ(4.04) ƘƒĂǉʅ 9-7 Ǉǆ ŀƑƼǁ! ǑƕǴʅơ!ƒ ƱʅĂƙǆ!ƒ ƸǁǁƕǴǆǇǒƕ (4.40) ƘƒĂǉʅ 6-4 ŀƑƼǁ! ǑƕǴʅơ!ƒ

ǂƑ5!ƒ Ơ!ǴƮ! (ƘƒĂǇƪ9 ǇǊǆǎ ƧƛǂǄ ǇǆǎÜƘƒĂǇƪ 9-7) ǇǊǓǨƑ5!ƒ ǇǊǓǈ ǴǓƑǴƮơƒ ǂ!ƒƥ ƽĂƧ5 ƘƧǌƱ Ǵǆǎǂ

.(4.45) ǑǈǴƪơ ƱƪĂǨǆǎǈ ƘƒĂǇƪ 9 ǇǊǆǎ ƧƛǂǄ

(22) üǋǫƜ

ǏǁƑƟǁƐ ƒƥǫǄǎǁƐ ǄǫƑǐ5 ǀƟǂ ƒƴǂǁƐ ǀƐǋǆǎƨ ǫǫƳ ƥǐƩǂǄǎ ĂǂƳ ƼǋƥƧǁƐ ǄǎƳ ƹƪǀǂǁ (scheffe) ƥƑǴǂǪǁƐ ƼǐǴƱǂ ƛǝƑǂǆǎ
ǀƐƥƐƥƽǁƐ ƤƑǪǂƑǴ ǄǎǐǴƳǘǁƐ ƿƐƥƪǆǴ !ǂǋǐ ǎƤǁƐ üƮƸǄǎǁƐ ƒƥǫǄǎǁƐ ƿǋǂƨ ǫƴǴǁ

9 ǄǎǄǎ ƥǩǀǀ ǀƐǋǆǎƨ	9-7 ǀƐǋǆǎƨ	6-4 ǀƐǋǆǎƨ	3-1 ǄǎǄǎ ǀƐǋǆǎƨ	ǏǴƑƨƟǁƐ ƯƨǋǄǄǎǁƐ	ǌǋǂƨǄǎǁƐ
0.25	0.18	-0.41	-	3.79	ǀƐǋǆǎƨ 3-1 ǄǎǄǎ
*0.66	*0.59	-		4.20	ǀƐǋǆǎƨ 6-4
0.07	-			3.61	ǀƐǋǆǎƨ 9-7
-				3.54	ǀƐǋǆǎƨ 9 ǄǎǄǎ ƥǩǀǀ

.(0.05= **α**) ǈǁǗǫǁƐ ǌǋǂƨǄǎ ǫǆǎƳ ƑǐǝƑƮƟǈ ǈǁƐǫ ƼǋƥƧǁƐ*

ýư5ǆǎ!ƒ ǑưǴǑƧ!ƒ ƔƧƥǆǎ!ƒ ǁĂǁƪ ƥƸǈ ǏǁƵ ƽĂƧ5!ƒ ƴƥƒĂǆǎ ǇǄ (22) ýĂƥƞ!ƒ ǇǊǆǎ ƧǌƱǓ

ƔƧƥǆǎ!ƒ ǀƥǴǓƥ Ƙơǩ Ɣƶǁ!ƒ ƘƒĂǇƪ ƥƥƵ ƧǓƺǩǆǎ! ǴƶǈǨ ƘƒƧƒƧǀ!ƒ ƦǴƤǨǴǈ ǇǊǓǈƵǘ!ƒ ǁƒƧƮǈ ǄǩǌǓ ǏƦ!ƒ

ƹǁǈ ǂǒơ (ƘƒĂǇƪ 6-4) ǂƑ5!ƒ Ơ!ǴƮ!Ă (ƘƒĂǇƪ 9-7) Ă (ƘƒĂǇƪ6-4) ǂƑ5!ƒ ǇǊǓǈ ƘǇǴǂ Ǒ!Ǵơ!ƒ

9 ǇǊǆǎ ƧƛǂǄ ǂƑ5ǁ! ǑǈǴƪơ!ƒ ƱƪĂǨǆǎ!ƒ ƹǁǈ ǴǆǎǇǓǈ (4.20) ƘƒĂǇƪ (6-4) ǂƑ5ǁ! ǑǈǴƪơ!ƒ ƱƪĂǨǆǎ!ƒ

(6-4) Ơ!ǴƮ!Ă ƘƒĂǇƪ 9 ǇǊǆǎ ƧƛǂǄĂ ƘƒĂǇƪ (6-4) ǑǨƑ5 ǇǊǓǈ ƽĂƧ5 ǁ!ƦǂĂ Ü(3.54) ƘƒĂǇƪ

.(4.20) ǑǈǴƪơ!ƒ ƱƪĂ!ƒ ƹǁǈ ǂǒơ ƘƒĂǇƪ

(23) üNjǫǁǁ

þNjƗƨ ǫƴƓǁ ƼĭþƻǁƐ Ĭƺ ƒƴƗǁƐ lƐNjǚƨ ǫǫY þĭƸƗDž ĂƗY ƼNjþƻǁƐ DžY ƹƖ!Ɨǁ (scheffe) þƒƓƗƆǁƐ ƼĭƓƯƗ ƛƏƒƗǚ
lƐþƐþƽǁƐ ƤƒƆƗƒƓ DžĭƓYǘǁƐ þƐþƖǟƓ !ƗNĭ ăƤǁƐ üƬƻDžǁƐ ƒþǫDžǁƐ

9 DžDž þkǀƈ lƐNjǚƨ	9-7 lƐNjǚƨ	6-4 lƐNjǚƨ	3-1 DžDž lƐNjǚƨ	ĬƓƒƨƟǁƐ ƯƨNjƗDžǁƐ	njNjƗƨDžǁƐ
*0.60	0.12	0.17	-	3.97	lƐNjǚƨ 3-1 DžDž
0.43	-0.05	-		3.80	lƐNjǚƨ 6-4
*0.48	-			3.85	lƐNjǚƨ 9-7
-				3.37	lƐNjǚƨ 9 DžDž þkǀƈ

.(0.05= α) ƕǁǗǫǁƐ njNjƗƨDž ǫǚY ƒĭƏƒƬƟƌ ƕǁƐǫ ƼNjþƻǁƐ*

ýƵƽǆǆ!ƒ ŎƵƓŏƧ!ƒ ƔƧþǆǆ!ƒ ǁĂǁƖ þƶƕ ĬǁƵ ƾĂƧƽ!ƒ ƴþƒĂǆ LJD (23) ýĂþƞ!ƒ LJǆǆ ƧnjƲŏ

LJŏkƒƽ!ƒ LJŏƕ ƘLJƓƗ ƾŏƧƽ!ƒ Ŏƽ ƘƒĂLjƖ þþƵ Ƨŏƺkǆǆ! ǾƵƕk ƘƒƧƒƧǀ!ƒ ƦƓƤkƓƕ LJŏƕƵǘ!ƒ ǁƒƧƬƎƕ Džknjŏ ĭƦ!ƒ

LJŏƕ ƾĂƧƽ þĂƞĂ LJŏƕkĂ Ü(ƘƒĂLjƖ 3-1) Ɨƒƽ!ƒ Ơ!ƓƬ! (ƘƒĂLjƖ 9 LJǆǆ ƧƛƗD) (ƘƒĂLjƖ 3-1)

ƱƖĂkǆǆ!ƒ ƹǁƕ Ɨŏơ (ƘƒĂLjƖ 9-7) Ɨƒƽ!ƒ Ơ!ƓƬ!Ă (ƘƒĂLjƖ 9 LJǆǆ ƧƛƗD IJ ƘƒĂLjƖ9-7) LJŏkƒƽ!ƒ

ŎƕƓƖơ!ƒ ƱƖĂkǆǆ!ƒ ƹǁƕ ƓǆǆLJŏƕ (3.85) ƘƒĂLjƖ 9-7 Ɨƒƽǁ!Ă (3.97) (ƘƒĂLjƖ 3-1) Ɨƒƽǁ! ŎƕƓƖơ!ƒ

.ăƧƤǕƒ ƘƓƒƽ!ƒ LJŏƕ ǾŏƒƓƬơƺ Ɨ!ƒþ ƾĂƧƽ ƧnjƲk Dž!Ă Ü(3.37) ƘƒĂLjƖ 9 LJǆǆ ƧƛƗD LJǆǆ Ɨƒƽǁ!

ŎƛǘƛǆƒLJŏƓkǆƒ ýŏǁơk ƾŏƕƱk Džk ýƗƗ lƒþǕƒ ĬǁƵ ƾĂƧƽǁ! ƗŏƒƓƬơǗƒ Ɨ!Ǘþ!ƒ LJƵ ƻƬƗǁ!Ă

þþƵ ÜŎ!Ɠơ!ƒ ƔƧþǆǆ!ƒ lþƓŏþ Ƙơk ƔƵǁ!ƒ ƘƒĂLjƖ þþƵ ÜƧǆǆƵ!ƒ) ƗƖƒƧþ!ƒ ƘƒƧŏƺkǆǆ! ǾƵƕk (ANOVA)

.ǁ!Ʀ LJŏƕŏ (24) ýĂþƞ!ƒĂ Ü(ŎǆǆǁƵ!ƒ ýNjƋǆǆ!ƒ ÜƾŏƧƽ!ƒ Ŏƽ ƔƵǁ!ƒ ƘƒĂLjƖ

(24) [illegible]

[illegible] (ANOVA) [illegible]

([illegible])

[illegible]	F	[illegible]	[illegible]	[illegible]	[illegible]
0.212	1.513	0.520	3	1.560	[illegible]
0.010	3.829	1.316	3	3.948	[illegible]
0.188	1.609	0.553	3	1.659	[illegible]
0.530	0.738	0.254	3	0.761	[illegible]
		0.34	256	87.980	[illegible]
			268	95.791	[illegible]

.(0.05≥α) [illegible]*

[illegible] (24) [illegible] (F) [illegible] (0.05≥ α) [illegible] (1.513) [illegible] .(0.212)

[illegible] (0.05≥ α) [illegible] (F) [illegible] (1.609) [illegible] .(0.188)

[illegible] (F) [illegible] (0.05≥ α) [illegible] (0.738) [illegible] .(0.530)

ǁ Ăŀʅ Ĭŀƶ (0.05≥ α) Ƚ!Ǖþ!ƒ ăĂƙʅdž þǉƶ ȽǒƑƓƮơƼ Ƚ!Ǖþ ƘƒƦ ƽĂƧ5 þĂηĂ LJǒŀƙĂ

Ƙʒŀŀ Ƚ ǒơǛ(Ǒ!Ɠơ!ƒ ƔƧþdž!ƒ ǉþƓǒp Ƙơƙ Ɣƶŀ!ƒ ƘƒĂǉʅ þþƵ) Ƨǒʓƙdž! Ǘƶŀƙ ý ǂǂ ý ư 5dž!ƒ ƔƧþdž!ƒ

ƧƓŀƙƤƒ ƽǒŀƱƙ Džƙ ȽǒƑƓƮơǗƒ Ƚ!Ǖþ!ƒ ƴþƒĂdž Ƚ5Ƨƶdž!Ă (0,010) ȽǒƑƓƮơƼ Ƚ!Ǖþŀ (3,829) (f) Ƚdžǒp

:Ǒŀǒ Ɠdžǂ (scheffe) NJǒ5ǒƬ

(25) üNjǫШ

Ĭǁ ƑƟǁɛ ƒ þǫDžǁɛ ƔǫƑĭ5 l ƟȾ ƒ ƴǂǁɛ l ƐNjdžƨ ǫǫƳ þĭƩȾDž ĂǂƳ 5Njþƻǁɛ DžƳ ƹ ʅ lǂǁ (scheffe) þƑƓȾƢǁɛ 5ĭƓƯȽ ƛəƑȽdž
ü l l üƮƻDžǁɛ ƒ þǫDžǁɛ þNjǂƨ ĂǂƳ

9 DžĐž þƙlƈ lƐNjdžƨ	9-7 lƐNjdžƨ	lƐNjdžƨ 6-4	3-1 DžĐž lƐNjdžƨ	ĬƓƑƨƟǁɛ ƯƨNjȾDžǁɛ	njNjȽƨDžǁɛ
-0.14	0.2	-0.24	-	3.93	lƐNjdžƨ 3-1 DžĐž
0.1	*0.44	-		4.17	lƐNjdžƨ 6-4
-0.34	-			3.73	lƐNjdžƨ 9-7
-				4.07	lƐNjdžƨ 9 DžĐž þƙlƈ

.(0.05= α) ŀǁǗǫǁɛ njNjȽƨDž ǫdžƳ ƑĭəƑƮƟƋ ŀǁɛǫ 5Njþƻǁɛ*

Ƨǒʓƙdž! Ǘƶŀƙ ý ǂǂ ý ư 5dž!ƒ ƔƧþdž!ƒ ǁ Ăŀʅ Ĭŀƶ ƽĂƧ5!ƒ ƴþƒĂdž LJŀ (25) ýĂþη!ƒ LJdž ƧnjƱǒ

(ƘƒĂǉʅ6-4 ǛƘƒĂǉʅ 9-7) LJǒƙƑ5!ƒ LJǒŀ ƘǉƓǂ Ǒ!Ɠơ!ƒ ƔƧþdž!ƒ ǉþƓǒp Ƙơƙ Ɣƶŀ!ƒ ƘƒĂǉʅ þþƵ

ƩŀŀƓdžLJǒŀ (4.17) ƘƒĂǉʅ 6-4 ȽƑ5ŀ! ǑŀƓʅơ!ƒ ƱʅĂƙdž!ƒ Ʃŀŀ Ƚ ǒơ (ƘƒĂǉʅ 6-4) ȽƑ5!ƒ Ơ!ƓƮ!Ă

ƘƓƑ5!ƒ LJǒŀ ǗǒƑƓƮơƼ Ƚ!ƒþ ƽĂƧ5 ƧnjƱƙ Dž!Ă Ǜ(3.73) ƘƒĂǉʅ 9-7 ȽƑ5ŀ! ǑŀƓʅơ!ƒ ƱʅĂƙdž!ƒ

.ăƧƤǕƒ

: Ĭǂyƻǁɛ ƒþǫƊǁɛ ƿǸǂƨ

(26) üǸǫǬ

ǫǫY ÛþƊǅyǁɛ) ɭɛþĭƩǂƊǅǁ ƫyǴǂ Ĭǂyƻǁɛ ƒþǫƊǅǁɛ ƿǸǂƨǁ ƕƨɛþǫǁɛ ǫƑyǴǓ ƕĭþƑĭyƊǅǁɛ ɭƑƺɛþƟǆǗɛǸ ƕĭǴƑƨƟǁɛ ɭƑƲƨǸǂƊǅǁɛ
(ĬƊǅǂyǁɛ üǉǅƊǅǁɛ ÛƼĭþƻǁɛ Ĭƺ ƒyǂǁɛ ɭɛǸǆƨ ǫǫY ÛĬǁƑƟǁɛ ƒþǫƊǅǁɛ ƔǫƑĭƽ ɭƟǂ ƒyǂǁɛ ɭɛǸǆƨ

Ʃɛþ ƟǗÜɛ ăþƑĭyƊǅǁɛ	Ʊƨ ǸǂƊǅǁɛ ĬǴƑƨƟǁɛ	ǫǫyǁɛ	ƕƨǁɛ	þĭƩǂƊǅǁɛ	ƕƨɛþǫǁɛ ǫƑyǴǳ
1.49	4.37	63	ƊǴƵ 20 ǇǆǄ ýƿƊ	þƊǅyǁɛ	ƒĭþǫǂǁɛ ǫƑƪþǗɛǸ
0.58	4.23	102	ƊǴƵ 23-20		
0.57	4.11	53	ƊǴƵ 27-24		
0.63	4.13	49	ƊǴƵ 27 ǇǆǄ ƧƛǂƊ		
0.99	4.23	198	ƘƒĂǉƪ 3-1 ǇǆǄ	ɭɛǸǆƨ ǫǫY ƔǫƑĭƽ ɭƟǂ ƒyǂǁɛ ĬǁƑƟǁɛ ƒþǫƊǅǁɛ	
0.45	4.30	47	ƘƒĂǉƪ 6-4		
0.56	3.93	12	ƘƒĂǉƪ 9-7		
0.43	4.12	10	ƘƒĂǉƪ 9 ǇǆǄ ƧƛǂƊ		
1.11	4.31	125	ƘƒĂǉƪ 3-1 ǇǆǄ	ɭɛǸǆƨ ǫǫY ƼĭþƻǁɛĬƺ ƒyǂǁɛ	
0.56	4.26	70	ƘƒĂǉƪ 6-4		
0.70	4.06	37	ƘƒĂǉƪ 9-7		
0.60	3.99	35	ƘƒĂǉƪ 9 ǇǆǄ ƧƛǂƊ		
0.60	4.21	111	ǇĂþ ǴǆƼ ǂǆǴƵ ǂǒĂǉǴƛ	ĬƊǅǂyǁɛ üǉǅƊǅǁɛ	
1.59	4.44	52	ƊǅĂǉƕþ		
0.61	4.12	91	ƩĂǒƧĂǃǴǂƕ		
0.62	4.05	13	ǴǒǉƵ ƘǴƪƒƧþ		

0.85	4.28	63	[illegible] 20 [illegible]	[illegible]	[illegible]
0.64	4.34	102	[illegible] 23-20		
0.67	4.19	53	[illegible] 27-24		
0.97	4.07	49	[illegible] 27 [illegible]		
0.80	4.18	198	[illegible] 3-1 [illegible]	[illegible]	
0.66	4.35	47	[illegible] 6-4		
0.65	4.52	12	[illegible] 9-7		
0.32	4.70	10	[illegible] 9 [illegible]		
0.65	4.26	125	[illegible] 3-1 [illegible]	[illegible]	
0.92	4.32	70	[illegible] 6-4		
0.54	4.16	37	[illegible] 9-7		
1.02	4.17	35	[illegible] 9 [illegible]		
0.68	4.30	111	[illegible]	[illegible]	
0.79	4.24	52	[illegible]		
0.86	4.16	91	[illegible]		
0.68	4.40	13	[illegible]		
0.95	3.88	63	[illegible] 20 [illegible]	[illegible]	[illegible]
0.81	4.10	102	[illegible] 23-20		
0.90	3.95	53	[illegible] 27-24		
0.97	3.84	49	[illegible] 27 [illegible]		
0.91	3.94	198	[illegible] 3-1 [illegible]	[illegible]	
0.85	4.08	47	[illegible] 6-4		
0.95	3.86	12	[illegible] 9-7		
0.77	4.17	10	[illegible] 9 [illegible]		

0.90	4.05	125	ƘƒĂǻǕ 3-1 ǇǈǊ	ƒ yǂǁǀ ǃ ƐNjǆ ƨ ơơƳ ƼǏƥ2ǁǀ Ǐ ʒ	
0.87	3.90	70	ƘƒĂǻǕ 6-4		
0.77	4.01	37	ƘƒĂǻǕ 9-7		
1.04	3.81	35	ƘƒĂǻǕ 9 ǇǈǊ ƧƛǂƉ		
0.88	4.01	111	ǇĂƥ ǴǆƼ ƗǆǴƵ ƗǒĂǻǴƛ	Ǐǅǂyǁǀ üǉǄǅǁǀ	
0.85	3.96	52	ǅĂǁƕƥ		
0.98	3.89	91	ƩĂǒƧĂ!Ǵǂƙ		
0.54	4.18	13	ǴǒǁƵ ƘǴǕƒƧƥ		
2.18	3.75	63	ǅǴƵ 20 ǇǈǊ ýpƉ	ƥǅǅyǁǀ	ƕǁǀơyǁǀ
1.39	3.38	102	ǅǴƵ 23-20		
1.05	3.42	53	ǅǴƵ 27-24		
1.21	3.44	49	ǅǴƵ 27 ǇǈǊ ƧƛǂƉ		
1.61	3.49	198	ƘƒĂǻǕ 3-1 ǇǈǊ	ƒ yǂǁǀ ǃ ƐNjǆ ƨ ơơƳ ƒ ƥơǅǁǀ ƔơƑǐƽ ǃ ƟƗ Ǐ ǁƑƟǁǀ	
1.07	3.53	47	ƘƒĂǻǕ 6-4		
1.25	3.29	12	ƘƒĂǻǕ 9-7		
2.14	3.25	10	ƘƒĂǻǕ 9 ǇǈǊ ƧƛǂƉ		
1.83	3.49	125	ƘƒĂǻǕ 3-1 ǇǈǊ	ƒ yǂǁǀ ǃ ƐNjǆ ƨ ơơƳ ƼǏƥ2ǁǀ Ǐ ʒ	
1.06	3.61	70	ƘƒĂǻǕ 6-4		
0.99	3.31	37	ƘƒĂǻǕ 9-7		
1.64	3.36	35	ƘƒĂǻǕ 9 ǇǈǊ ƧƛǂƉ		
2.03	3.50	111	ǇĂƥ ǴǆƼ ƗǆǴƵ ƗǒĂǻǴƛ	Ǐǅǂyǁǀ üǉǄǅǁǀ	
1.06	3.38	52	ǅĂǁƕƥ		
1.06	3.54	91	ƩĂǒƧĂ!Ǵǂƙ		
0.87	3.38	13	ǴǒǁƵ ƘǴǕƒƧƥ		

0.92	3.58	63	ĎĭƵ 20 ǇĴǐ ýpĎ	þĎǐƴǁƐ	ǏƱǂƨƗǁƐ ƿǊǂƨǁƐ
0.93	3.51	102	ĎĭƵ 23-20		
1.01	3.54	53	ĎĭƵ 27-24		
0.98	3.36	49	ĎĭƵ 27 ǇĴǐ ƧƛǂĎ		
0.92	3.51	198	ƘƒĂǉƪ 3-1 ǇĴǐ	ƒ yǂǁƐ ƖƐǊǐƨ ƣƣƳ ƒ þƣĎǁƐ ƔƣƑƗƨ ƖƟƗ Ǐ ǁƑƟǁƐ	
1.02	3.61	47	ƘƒĂǉƪ 6-4		
1.05	3.29	12	ƘƒĂǉƪ 9-7		
1.17	3.20	10	ƘƒĂǉƪ 9 ǇĴǐ ƧƛǂĎ		
0.93	3.57	125	ƘƒĂǉƪ 3-1 ǇĴǐ	ƒ yǂǁƐ ƖƐǊǐƨ ƣƣƳ ƽǐþƻǁƐ Ǐʒ	
0.95	3.64	70	ƘƒĂǉƪ 6-4		
0.97	3.37	37	ƘƒĂǉƪ 9-7		
0.95	3.16	35	ƘƒĂǉƪ 9 ǇĴǐ ƧƛǂĎ		
0.88	3.47	111	ǇĴĂþ ƓǐƼ ƗǐƓƵ ƗǒĂǉƓƛ	ǏĎǂƴǁƐ üǉǰĎĎǁƐ	
1.00	3.44	52	ĎǐĂǁƕþ		
1.00	3.61	91	ƩĂǒƧĂ!Ɠǂƕ		
0.89	3.37	13	ƓǒǁƵ ƘƓƪƒƧþ		
0.81	3.90	63	ĎĭƵ 20 ǇĴǐ ýpĎ	þĎǐƴǁƐ	ǊƓ ƕǀþƑƪĎǁƐ ƿǊǂƨǁƐ ǏƱƐþƭĎǐƣǁƐ
0.98	3.80	102	ĎĭƵ 23-20		
1.05	3.74	53	ĎĭƵ 27-24		
1.40	3.86	49	ĎĭƵ 27 ǇĴǐ ƧƛǂĎ		
0.95	3.76	198	ƘƒĂǉƪ 3-1 ǇĴǐ	ƒ yǂǁƐ ƖƐǊǐƨ ƣƣƳ ƒ þƣĎǁƐ ƔƣƑƗƨ ƖƟƗ Ǐ ǁƑƟǁƐ	
1.02	3.87	47	ƘƒĂǉƪ 6-4		
1.04	3.94	12	ƘƒĂǉƪ 9-7		
2.16	4.73	10	ƘƒĂǉƪ 9 ǇĴǐ ƧƛǂĎ		

0.91	3.83	125	ƘƒĂǁǏ 3-1 ǈǆ	ƒyǂǁǁ ǀƐNjǖƨ ǫǫǮ ƼǐþƧǁǁ Ǐǅ	
1.11	3.81	70	ƘƒĂǁǏ 6-4		
0.81	3.81	37	ƘƒĂǁǏ 9-7		
1.50	3.85	35	ƘƒĂǁǏ 9 ǈǆ ƨƛǂǁ		
0.89	3.81	111	ǈǍþ ǴǆƼ ǂǆǴƵ ǂǒĂǁǴƛ	ǏǅǂyǁǁüljƊǅǁǁ	
1.02	3.69	52	ƊĂǁþ		
1.18	3.98	91	ƩĂǒƨĂ!Ǵǂǁ		
1.15	3.28	13	ǴǒǁƵ ƘǴǏƒƨþ		
0.76	4.39	63	ǅǴƵ 20 ǈǆ ýpǅ	þǅyǁǁ	ƒǆƐNjǁǁǴ !ƒǅǂljǕǁ ǁǐƟƬǁǁ
0.91	4.30	102	ǅǴƵ 23-20		
0.68	4.51	53	ǅǴƵ 27-24		
0.85	4.29	49	ǅǴƵ 27 ǈǆ ƨƛǂǁ		
0.84	4.35	198	ƘƒĂǁǏ 3-1 ǈǆ	ƒyǂǁǁ ǀƐNjǖƨ ǫǫǮ ƒþǫǅǁǁ ǫǫƑǐƨ ǀƟǂ Ǐǁǁ ƑƟǁǁ	
0.83	4.34	47	ƘƒĂǁǏ 6-4		
0.53	4.63	12	ƘƒĂǁǏ 9-7		
0.82	4.35	10	ƘƒĂǁǏ 9 ǈǆ ƨƛǂǁ		
0.71	4.46	125	ƘƒĂǁǏ 3-1 ǈǆ	ƒyǂǁǁ ǀƐNjǖƨ ǫǫǮ ƼǐþƧǁǁ Ǐǅ	
0.83	4.35	70	ƘƒĂǁǏ 6-4		
0.77	4.39	37	ƘƒĂǁǏ 9-7		
1.14	4.03	35	ƘƒĂǁǏ 9 ǈǆ ƨƛǂǁ		
0.89	4.35	111	ǈǍþ ǴǆƼ ǂǆǴƵ ǂǒĂǁǴƛ	ǏǅǂyǁǁüljƊǅǁǁ	
0.73	4.37	52	ƊĂǁþ		
0.84	4.37	91	ƩĂǒƨĂ!Ǵǂǁ		
0.55	4.38	13	ǴǒǁƵ ƘǴǏƒƨþ		

0.66	4.13	63	[illegible] 20 [illegible]	[illegible]	[illegible]
0.48	4.05	102	[illegible] 23-20		
0.49	3.99	53	[illegible] 27-24		
0.63	3.93	49	[illegible] 27 [illegible]		
0.58	4.02	198	[illegible] 3-1 [illegible]	[illegible]	
0.44	4.10	47	[illegible] 6-4		
0.54	3.97	12	[illegible] 9-7		
0.56	4.14	10	[illegible] 9 [illegible]		
0.57	4.10	125	[illegible] 3-1 [illegible]	[illegible]	
0.51	4.07	70	[illegible] 6-4		
0.48	3.94	37	[illegible] 9-7		
0.64	3.86	35	[illegible] 9 [illegible]		
0.49	4.04	111	[illegible]	[illegible]	
0.70	4.10	52	[illegible]		
0.56	4.01	91	[illegible]		
0.42	3.94	13	[illegible]		

[illegible] (26) [illegible] (MANOVA) [illegible] (27) [illegible].

(27) [illegible]

[illegible] (MANOVA) [illegible]

([illegible])

[illegible]	F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.738	0.497	0.395	4	1.578	[illegible]	[illegible]
0.324	1.171	0.679	4	2.717	[illegible]	
0.343	1.131	0.911	4	3.643	[illegible]	
0.578	0.722	1.750	4	6.999	[illegible]	
0.569	0.734	7.268	4	29.072	[illegible]	
0.965	0.144	0.132	4	0.526	[illegible]	
0.865	0.319	0.340	4	1.361	[illegible]	
0.507	0.831	0.561	4	2.243	[illegible]	
0.958	0.104	0.083	3	0.248	[illegible]	[illegible]
0.016	3.526	2.045	3	6.136	[illegible]	
0.541	0.719	0.579	3	1.738	[illegible]	
0.984	0.053	0.128	3	0.383	[illegible]	
0.857	0.256	2.538	3	7.613	[illegible]	
0.765	0.383	0.349	3	1.047	[illegible]	
0.018	3.429	3.658	3	10.973	[illegible]	
0.390	1.008	0.680	3	2.040	[illegible]	

0.405	0.976	0.774	3	2.322	þĠTƧŰƒĂ ƔŏƧþƙ!ƒ	ǫǫƔ ƪƐNjǆƨ Ĭƺ ƒyǂǁƐ ƼĭþƻǁƐ
0.507	0.778	0.452	3	1.355	ŎƵĜdžƙȠŬƒ ƧŏþǀƘ!ƒ	
0.273	1.306	1.052	3	3.156	ƨŏƺơƙ!ƒ	
0.768	379 .0	0.919	3	2.757	Ɨ!ƒþƶ!ƒ	
0.891	0.207	2.053	3	6.159	Ŏ ư ĜŏƧ!ƒ ĈƒþŪƒ ýŏnjƪƙ	
0.199	1.560	1.422	3	4.265	ŎƱǐƪƙ!ƒ ǁĂǐƪ!ƒ	
0.869	0.239	0.255	3	0.765	ŎƱƒƧǀdžŏþ!ƒ ǁĂǐƪ!ƒ ĂǷ ƗǂƧĠƬdž!ƒ	
0.012	3.745	2.528	3	7.583	ƗŏơƮ!ƒ ƔǈƒĂȠ!Ğǘ ǷĜdžƙNjŬƒ	
0.303	1.220	0.967	3	2.902	þĠTƧŰƒĂ ƔŏƧþƙ!ƒ	üljǷǷǁƐ ĬǷǂyǁƐ
0.736	0.424	0.246	3	0.738	ŎƵĜdžƙȠŬƒ ƧŏþǀƘ!ƒ	
0.586	0.646	0.521	3	1.562	ƨŏƺơƙ!ƒ	
0.946	0.123	0.298	3	0.895	Ɨ!ƒþƶ!ƒ	
0.202	1.552	15.362	3	46.086	Ŏ ư ĜŏƧ!ƒ ĈƒþŪƒ ýŏnjƪƙ	
0.564	0.682	0.621	3	1.863	ŎƱǐƪƙ!ƒ ǁĂǐƪ!ƒ	
0.055	2.561	2.732	3	8.195	ŎƱƒƧǀdžŏþ!ƒ ǁĂǐƪ!ƒ ĂǷ ƗǂƧĠƬdž!ƒ	
0.991	0.036	0.025	3	0.074	ƗŏơƮ!ƒ ƔǈƒĂȠ!Ğǘ ǷĜdžƙNjŬƒ	
		0.793	252	199.893	þĠTƧŰƒĂ ƔŏƧþƙ!ƒ	ĐƯƊǁƐ
		0.580	252	146.167	ŎƵĜdžƙȠŬƒ ƧŏþǀƘ!ƒ	
		0.806	252	203.005	ƨŏƺơƙ!ƒ	
		2.424	252	610.924	Ɨ!ƒþƶ!ƒ	
		9.899	252	2494.559	Ŏ ư ĜŏƧ!ƒ ĈƒþŪƒ ýŏnjƪƙ	
		0.911	252	229.556	ŎƱǐƪƙ!ƒ ǁĂǐƪ!ƒ	

		1.067	252	268.811	[illegible]	
		0.675	252	170.059	[illegible]	
			265	209.448	[illegible]	[illegible]
			265	156.760	[illegible]	
			265	212.162	[illegible]	
			265	621.940	[illegible]	
			265	2573.763	[illegible]	
			265	239.110	[illegible]	
			265	288.227	[illegible]	
			265	180.353	[illegible]	

* [illegible] (0.05≥ α).

[illegible] (27) [illegible] (0.05≥ α) [illegible].

[illegible] (0.05≥ α) [illegible]

(scheffe) [illegible]

(28) [illegible]

[illegible] (scheffe) [illegible]

9 [illegible]	9-7 [illegible]	[illegible] 6-4	3-1 [illegible]	[illegible]	[illegible]
*-0.52	-0.34	-0.17	-	4.18	[illegible] 3-1 [illegible]
-0.35	-0.17	-		4.35	[illegible] 6-4
-0.18	-			4.52	[illegible] 9-7
-				4.70	[illegible] 9 [illegible]

.(0.05= **α**) [illegible]*

[illegible] (28) [illegible]

9 [illegible] 3-1 [illegible]

[illegible] 9 [illegible] (9 [illegible])

.(4.18) [illegible] 3-1 [illegible] (4.70)

(29) [illegible]

[illegible] (scheffe) [illegible]

9 [illegible]	9-7 [illegible]	[illegible] 6-4	3-1 [illegible]	[illegible]	[illegible]
*-0.97	-0.18	-0.11	-	3.76	[illegible] 3-1 [illegible]
*-0.86	-0.07	-		3.87	[illegible] 6-4
*-0.79	-			3.94	[illegible] 9-7
-				4.73	[illegible] 9 [illegible]

.(0.05= **α**) [illegible]*

ǑƱƒƧǀdžǒϸ!ƒ ǁǍǁ̂ǋ!ƒ ǍǱ ƗǂƧǴƬdž!ƒ ϸƶǃ Ǐǁ̂Ƶ ƭǍƨƺ!ƒ ƴϸƒǍǆ ǇǱ (29) ýǍϸƞ!ƒ ǇǆǕ ƧǌƱǒ

ƗǌƞǇǆ (ƘƒǍǉǋ 9 ǇǆǕ Ƨƛǂ)) ƗƑƺ!ƒ ǇǒǓ ƘǈǴǂ ƔƧϸdž!ƒ ǃϸǴǒp ƘƠk ƔƶǁǄ!ƒ ƘƒǍǉǋ ϸϸƵ ƧǒƺƙǆdžǓ Ǻƶǃk

ǑǃǴǋƠ!ƒ ƱǋǍƙǆdž!ƒ ƩǁǃƬ Ɨǒƣ (ƘƒǍǉǋ 9 ǇǆǕ Ƨƛǂ)) ƗƑ!ƒ Ơ!ǴƬ!Ǎ ǎƧƤǛƒ ƗƛǕƛ!ƒ ƘǴƑ!ƒ ƴǑǆǕƞǍ

Ü(3.76) (ƘƒǍǉǋ 3-1) ǇǆǕ ƗƑǄ! ǑǃǴǋƠ!ƒ ƱǋǍƙǆdž!ƒ ƩǁǃƬ ǴǆǕǇǒǃ (4.73) ƘƒǍǉǋ 9ǇǆǕ Ƨƛǂ) ƗƑǄ!

.(3.94) (ƘƒǍǉǋ 9-7) ƗƑǄ!Ǎ Ü(3.87) (ƘƒǍǉǋ 6-4) ƗƑǄ!Ǎ

(30) üǋǌǁ

ƼǏϸƧǁƐ Ǐƺ ƒƴǂǁƐ ǃƐǋǆƨ ǌǌƳ ϸǏƩƗǆǍ ǍǂƳ ƼǋϸƧǁƐ ǆǓƳ ƹǋǀǂǁ (scheffe) ϸƑǴƗǌǁƐ ƼǏǴƱƗ ƛƟƑƗǆ

ǃǏƟƬǁƐ ƒǆƐǋǁǁƑǴ !ƑǆƗǈǗƐ ǌƴǴǁ

9 ǆǆǕ ϸƙǀǴ ǃƐǋǆƨ	9-7 ǃƐǋǆƨ	ǃƐǋǆƨ 6-4	3-1 ǆǆǕ ǃƐǋǆƨ	ǏǴƑƨƟǁƐ ƯƨǋƗǆǁƐ	ǌǋƗƨǆǁƐ
*0.43	0.07	0.11	-	4.46	ǃƐǋǆƨ 3-1 ǆǆǕ
0.32	-0.04	-		4.35	ǃƐǋǆƨ 6-4
0.36	-			4.39	ǃƐǋǆƨ 9-7
-				4.03	ǃƐǋǆƨ 9 ǆǆǕ ϸƙǀǴ

.(0.05= α) ǃǁǗǌǁƐ ǌǋƗƨǆ ǌǆƳ ƑǏƏƑƬƟǇ ǃǁƐǌ ƼǋϸƧǁƐ*

Ǻƶǃk ƗǒƠƬ!ƒ ƔǈƒǍƞ!Ǵ ǆǴǆǕǋǊǗƒ ϸƶǃ Ǐǁ̂Ƶ ƭǍƨƺ!ƒ ƴϸƒǍǆ ǇǱ (30) ýǍϸƞ!ƒ ǇǆǕ ƧǌƱǒ

(ƘƒǍǉǋ 9ǇǆǕ Ƨƛǂ) ÜƘƒǍǉǋ 3-1 ǇǆǕ) ǇǒƙƑƺ!ƒ ǇǒǓ ƘǈǴǂ ƭǒƧƺ!ƒ Ǒƽ ƔƶǁǄ!ƒ ƘƒǍǉǋ ϸϸƵ Ƨǒƺƙǆdž!

Ƨƛǂ) ƗƑǄ! ǑǃǴǋƠ!ƒ ƱǋǍƙǆdž!ƒ ƩǁǃƬ ǴǆǕǇǒǃ (4.46) ǑǃǴǋƠ ƱǋǍƙǆǃ (ƘƒǍǉǋ 3-1 ǇǆǕ) ƗƑ!ƒ Ơ!ǴƬ!Ǎ

.(4.03) ƘƒǍǉǋ 9 ǇǆǕ

[illegible] (4- Way-ANOVA) [illegible] [illegible] [illegible] (31) [illegible].

(31) [illegible]

[illegible] (ANOVA) [illegible]

[illegible]

[illegible]	F	[illegible]	[illegible]	[illegible]	[illegible]
0.700	0.549	0.171	4	0.684	[illegible]
0.435	0.914	0.284	3	0.853	[illegible]
0.138	1.856	0.578	3	1.734	[illegible]
0.878	0.226	0.071	3	0.212	[illegible]
		0.31	252	78.456	[illegible]
			26	82.504	[illegible]

[illegible] (31) [illegible] (F) [illegible] (0.05≥ α) [illegible] (0.549) [illegible] .(0.700)

[illegible] (0.05≥ α) [illegible] (F) (0.914) [illegible] .(0.435)

Ɨù!Ǚþ!ƒ ăĂƙƪùƌ þùǀƵ ƗǒƑƓƮùơƺ Ɨù!Ǚþ ƘƒƦ ƾĂƧùƼ þĂɳĂ ǅþƵ ƝƑƓǀ!ƒ ƘƧǌƱ Ǥƌǂ

(F) Ɨùƌǒƿ Ƙùƺǀ Ɨǒơ ƾǒƧƼ!ƒ Ǒ5 ƔƶǄ!ƒ ƘƒĂǀƪ þþƵ ƧǒƺƙƌǍ! ǤƶƙƘ ýǂǂ ǀƒþǕƒ Ǐǀ Ƶ (0.05≥ α)

.(0.138) ƗǒƑƓƮơƺ Ɨ!Ǚþǀ (1.856)

Ɨù!Ǚþ!ƒ ăĂƙƪùƌ þùǀƵ ƗǒƑƓƮùơƺ Ɨù!Ǚþ ƘƒƦ ƾĂƧùƼ þĂɳĂ ǅþƵ ƝƑƓǀ!ƒ ƘƧǌƱ Ǥƌǂ

Ɨù!Ǚþǀ (0.226) (F) Ɨƌǒƿ Ƙƺǀ Ɨǒơ ǑƌǄƶ!ƒ ýǋƋƌ!ƒ ƧǒƺƙƌǍ! ǤƶƙƘ ýǂǂ ǀƒþǕƒ Ǐǀ Ƶ (0.05≥ α)

.(0.878) ƗǒƑƓƮơƺ

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] 2002 [illegible] 2010 [illegible] .(Alfermann, Lee, and WÑrth, 2005 ؛Paul, Ian & Williams 2010 [illegible]

Huang, 2011 [illegible] (2003 [illegible]

[illegible]

[illegible]

(Paul, Ian & Williams 2010 [illegible]2010) [illegible]

[illegible]

[illegible]

: ĬYƒDžŦШŰƐ þĭqƫŦǁƐ qyƃ

ƧŏþǀƘ!ƒ þƶƞ Ŏ5 ý‡‡ Ŏǁƶ5!ƒ ƔƧþdž!ƒ ǁĂǁƪ! ŦdžƓNjĂ ŦƶƼƘƧdž ŦƞƧþ ǁƓǈNj LJD ƝƑƓƘǈ!ƒ ƘƧnjƲD

ǁù!Ʀ Ŏ5 Ɣƞƪ!ƒ ŧơƓƞ!ƒ ĂƨƶŏĂ ÜŦŏƞƧȝ!ƒ ŦƼư!ƒ Ŏ5 Džþǀ!ƒ ǀƧ‡ ŎƞƵŬ ƧƲǈ ŦnjƞĂ LJdž ŎƵƓdžƘƞŬƒ

ƘƓpŭƶ!ƒ ŦŏĂǀƘ ĬǁƵ LJĂþƵƓƪŏ LJŏƞƧþdž!ƒ LJDĂ ÜLJŏƞƵŭ!ƒ ydž LJŏƞƧþdž!ƒ Ɠnjƞ ýdžƓƶƘŏ ŎƘ!ƒ ŦǀŏƧƱ!ƒ Ĭ!ƍ

.ǀþŏƞ LJĂ‡Ƙ ƔƶǁdžǃƒШƧƓƤ LJŏƞƵŭ!ƒĂ ƔƧþdž!ƒ LJŏƞ Ŧpŭƶ!ƒ LJDĂ ÜLJŏƞƵŭ!ƒ LJŏƞ

LJD ĬǁƵ (Alfermann, Lee, and WÑrth, 2005) ŦƪƒƧþ ydž ŦƞŏƘǈ!ƒ ǉƦNj ƘǀƼƘƒĂ

.ŎƵƓdžƘƞŬƒ DžƵþ!ƒ ǀþƓŏƨ ƫŏƧƱ LJƵ LJĂ‡ŏ ŦŏưƓŏƧ!ƒ ƫƧ5!ƒ ƘƒƧƓnjdž ƧŏĂƱƘ

þùƶƞ Ŏ5 ƫĂƧ5 þĂƞĂ Džþƶƞ (2004 ÜŎƪƓƞƵ Ü2007 ÜǀƨŏdžƱƒ) ŦƪƒƧþ ydž Ƙ5ǁƘƤƒĂ Ɠdž‡

.ǀƧŏƤŪƒ ŦƞƘƧdž!ƒ ĬǁƵ ŎƵƓdžƘƞŬƒ ƧĂơdž!ƒ ýĂƬơĂ ŎƵƓdžƘƞŬƒ ýƓƬƘŬƒ

LJŏùƞƵŭ!ƒ LJŏƞĂ NJǈŏƞ Ŧpŭƶ!ƒ LJĂ‡Ƙ LJƒ ĬǁƵ ƒ Ƨơŏ" ĬǁƵ ƒ ǈƘ ŎƘ!ƒ ǀƧǀ5!ƒ ƘǁƬơ ŧŏơ

ĬùǁƵ ƔƧþdž!ƒ ǀƧþp Ĭ!ƍ ǁ!Ʀ Ŏ5 Ɣƞƪ!ƒ ŧơƓƞ!ƒ ĂƨƶŏĂ ÜĬ!ĂŪƒ ŦƞƘƧdž!ƒ ĬǁƵ "ǀþŏƞ ƔƶǁdžǃƒШƧƤ

ÜƘƓƪù5ƓǈdžǃƒƇƓùǈƘD ĂD NJƞƧƓƤĂ LJŏƧdžƘ!ƒ ýƤƒþ ƻpƒĂdž!ƒĂ ƻĂƧƲ!ƒ yŏdžƞ Ŏ5 LJŏƞƵŭ!ƒ ydž ýdžƓƶƘ!ƒ

LJŏƞƧþdž!ƒ LJƎ5 Džnjƶdž ƻƧƬƘ!ƒ LJƪơĂ DžnjƘƓƞƓơĂ Džnj5ĂƧƲĂ LJŏƞƵŭ!ƒ Džnjƫƙ ĬǁƵ LJŏƞƧþdž!ƒ ǀƧþp Ĭ!ƍĂ

.LJĂþŏƧŏ Ɠdž‡ DžnjŏǁƵ LJĂƧƱŏƪŏĂ Džnj! LJŏƞƵŭ!ƒ DžƒƧƘơƒĂ ýŭȝƘƪƒ ĬǁƵ LJĂǁdžƶŏ

ĬùǁƵ "ƫùŏƧ5!ƒ ƨĂù5 þùǈƵ ƧĂƧȝ!ƒ ǁǁƘdžŏ Ŭ ĭƦ!ƒ" ĬǁƵ ƒ ǈƘ ŎƘ!ƒ ǀƧǀ5!ƒ ƘǁƬơ Ɠdžǈŏƞ

LJĂ5ƬƘŏ ýƞ ƧĂƧȝ!Ɠƞ LJĂ5ƬƘŏ Ŭ LJŏƞƧþdž!ƒ Ĭ!ƍ LJD ǁ!Ʀ Ŏ5 Ɣƞƪ!ƒ ŧơƓƞ!ƒ ĂƨƶŏĂ ǀƧŏƤŪƒ ŦƞƘƧdž!ƒ

ŦùpŭƵ LJDĂ .ǁ!Ʀƞ ƒĂdžƓp LJdž DžNj LJŏƞƵŭ!ƒ LJDĂ LJŏƞƵŭ!ƒ yƓǈƬ LJdž ƨĂ5!ƒ LJƎƞ LJĂƧƧƞŏĂ ƴưƒĂƘ!Ɠƞ

ƻþùnj!ƒ ƫùŏǀơƘ ýùƞD LJdž ŦǁdžƓ‡ ƘƓdžŏǁƶƘ!ƒ LJĂǀƞƱŏĂ Džnj! LJĂƶdžƪŏ ǁ!Ʀ! ǀþŏƞ LJŏƞƵŭ!Ɠƞ LJŏƞƧþdž!ƒ

.þĂƬǈdž!ƒ

[illegible]

[illegible]

Alfermann, Lee, 2011 [illegible]

[illegible] (Potrac, Jones, and Cushion, 2007 and WÑrth, 2005

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] 2010 [illegible] 2010 [illegible]

[illegible] (Kassing, Infante, 1999 [illegible]2002

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] Paul, Ian & Williams 2010 [illegible] 2010 [illegible]
[illegible] (Paddy, McComack, 2007

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Alfermann, Lee, Ý2011 [illegible] (Potrac, Jones, and Cushion, 2007 Ý and WÑrth, 2005 [illegible]

[illegible]

[illegible]

[illegible]

[illegible] :

[illegible] .(Alfermann, Lee, and WÑrth, 2005)

[illegible]

Ǒù ƱƶƙǓ ƗǀǒƧƱƼ ǋƙƒƥƇƬƧǫǍ ǋƙƇdžǒǁƶƙ ƇƇƱƵǫ ýǍƇơǒ" ǏǁƵ ƒ ǉƙ ǑƙǃƒǀƧǀƽǃƒ ƘǁƮơ ƇdžǈǒƼ

Ǐù!ǫ ǁ!Ʀ Ǒ5 ƔƼƪ!ƒ ƗơƇƼ!ƒ ǍƨƶǒǍ ǕǀƧǒƤǕƒ ƗƼƙƧdž!ƒ ǏǁƵ "ƧƇƪƽƙƪǕƒǍ ƗƬƥƇǉdžǁ! ƗƮƧ5 ǈǒƼƵǖ!

Ƨùdžƒ ǍǕƒ ƇƇùƱƵǫǍ ýdžƇƶƙ!ƒ ǏǁƵ ǈǒƼƧƥdž!ƒ ǀƧƥƿ Ǐ!ǫǍ ǕǈǒƼƵǖ!ƒ ƇƒƧƈ ƦƤǄ ƗǒdžǊǕ ǈǒƼƧƥdž!ƒ ǑƵǍ

ǀǍùƿ ƥǒƨǒƪ Ƈdž ƨƒƧƿ Ǒ5 ǈǒƼƵǖ!ƒ ƫ ƇǀǉǈǄ ǈǒƼƧƥdž!ƒ Ɨ5ƧƶdžǁǍǕƗƼƪƇǉdž ƗǀǒƧƱƼ ǈǒƼƵǖ! ƘƇdžǒǁƶƙ!ƒǍ

Ɣù Ƶǖ!ƒ ƗƬƥƇǉdž ǈǄ ǈǍdžǁƶǒ ǈǒƼƧƥdž!ƒ ǈǄ Ǐ!ǫǍ ǕƨƒƧǀ!ƒ ǁ!Ʀ Ǒ5 ǈǒƼƵǖ!ƒ ƇƒƧƈ Ɨ5ƧƶdžƥƶƼ ƨƒƧǀ!ƒ

.ƔƧƥdžǂ ǋƙƇdžǍǁƶdžǍ ǋƙ5ƧƶdžǈdžǍ ǋǉƌƬ ǈdž ýǁǀǒ Ǖ ƦƤƙdž!ƒ ƨƒƧǀ!ƒ Ǒ5

[illegible]

[illegible] (2010 [illegible] 2004 [illegible] 2004 [illegible] Paddy,

.(McComack, 2007

Paul, Ian & Williams [illegible] 2002 [illegible] 2004 [illegible]

[illegible] (2010

[illegible]

[illegible]

[illegible]

ƥƥùƵ) ƘƒƧùǒʓƙdž! ǶùƶƕƙǑǁƶƼ!ƒ ƔƧƥdž!ƒ ǁǍǁƪ ƥƶƕ ǏǁƵ ƾǍƧƼ ƥǍƞǍ ƝƑǤƙǉ!ƒ ƘƧnjƱƉǍ

Ơ!ǤƬ! (ǑdžǁƶƼ!ƒ ýǸǭdž!ƒ ÜƾǒƧƼ!ƒ ǑƼ ƔƶǁƼ!ƒ ƘƒǍǉƪ ƥƥƵ ÜǑ!ǤƠ!ƒ ƔƧƥdž!ƒ ƖƥǤǒƥ ƘƠƙ ƔƶǁƼ!ƒ ƘƒǍǉƪ

DžǤdž ƣùǉǗƒ ǑƛǒƥùƠ ǇǒƕƵǘ!ƒ ƯƶƕǇƉ Ǐ!ƍ ǁ!Ʀ ǑƼ Ɣƕƪ!ƒ ƚƠǤƕ!ƒ ǍƨƶǒǍ ÜƘƒǍǉƪ 9 ǇǍdž ƧƛǂƉ

ƘƥǍǁ! ƚƞǤƠƕ Ǎnj5 ƾǒƧƼ!ƒ ǤnjƕýdžƶǒǑƙ!ƒ ƚdžǍƱǉdž!ƒ ƾ5Ǎ ƔƵǘ!ƒ ƧǒƪDžƥƵ ǊǉƵ ƝƙǉǒƒƦǋǍÜƾǒƧƼǁ!

ǇǒùƕƵǘ!ƒ ƖƧùƱǉ Ǐ!ƍǍ ÜǊǉdž ƔƧƥdž!ƒ ǊƕǁƱǒ Ǥdž ƴdž DžǁƥƋƙ!ƒǍ ƾǒƧƼ!ƒ ǊǒǁƵ ƧǒǒƪǒǤdž ƴdž ǏƬǤdžƙǒ Ǒǂ!

ÜƾùǒƧƼ!ƒ ǑƼ ƥƥƞ DžnjǉǗ ǊǂǍǁƪ ǇǍǁƣƼǒ Ǘ ƥƥ ǐƦ!ƒ ƔƧƥdžǁ! ǑǁƶƼ!ƒ ǁǍǁƪ!ƒ Ǐǁƺ ƾǒƧƼ!ƒ ǑƼ ƥƥƞ!ƒ

Ǉùdž ýùdžǤƶƙǍ ǁǍǁƪ Ǐ!ƍ ƚƞǤƠƕ Džnj5 ƚǒ!ǤƵ ƚǒdžǁƵ ƚƞƧƥ ǏǁƵ ƒǍǁƬƠ ƥƥ ǇǒƕƵǘ!ƒ ƯƶƕǇƉ Ǐ!ƍǍ

. Džnj! ǑdžǒƥǤǂǗƒ ǎǍƙƪdž!ƒ ƴdž ƔƪǤǉƙǒ ƔƧƥdž!ƒ

ƧǂƉ ƥǍƞǍ Džƥƶƕ (Paul, Ian & Williams 2010) ǂƪƒƧƥ ƴdž ƚƞǒƙǉ!ƒ ǉƦǋ ƘƼǁƙƤƒ ƥƥǍ

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- .ƔƨþďǄ! ýƜƽďǅ!ƒ ǁĂǄƪ!ƒĂ ŎǄƶƽ!ƒ ǁĂǄƪǄ! ŁǊƪǈ!Ǵ Łƪƒƨþ!ƒ ŁǈŏƵ ƇƒƨƇ ƻǄķƤķ

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ƨǙǈ ŁǌƞĂ ǇďƔƨþďǄ! ýƜƽďǅ!ƒ ǁĂǄƪǄ! ŁǊƪǈ!Ǵ Łǈŏƶ!ƒ ƇƒƨƇ ƻǄķƤķ ǴďǈŏǊ ǗƨďƶǊ!ƒ ƨŏƺķďǄ!

.ƽŏƨƽ!ƒ Ŏƽ ƔƶǄ!ƒ ƘƒĂǈƪ þþƵ ƨŏƺķďǄ! ǴƶǊķ ǇŏǊƵǘ!ƒ

- þƒþùƵǫ ŁǀŏƨƱ Ĭ!ǫ þĂƶķĂ ǇŏǊƵǘ!ƒ ƴďǄ ýďǴƶķ!ƒ Ŏƽ ǇŏǊƨþďǄ!ƒ Łŏƞŏķƒƨķƪǫ Ŏƽ ƽĂƨƽ ǁǴǈǊ

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- ƻǘķùƤƒ ƔǊƪùǊ ǁ!ŖĂ (ǊǊƨþŏ) Ǌ! ƔƶǄŏ ĭŖ!ƒ ĭþǴǈ!ƒ ƔƪơǷǂ ǇŏǊƨþďǄ!ƒ ǁĂǄƪ ƻǄķƤŏ

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- [illegible] .(2002) [illegible]

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- [illegible] .(2007) [illegible]

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- [illegible] .(2003) [illegible]

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- [illegible] www.pdffactory.com [illegible]

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- [illegible] .(1987) [illegible]

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- [illegible] .(2012) [illegible]

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- [illegible] .(2000) [illegible]
[illegible]
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- [illegible] .(2001) [illegible]
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- [illegible] .(2006) [illegible]
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- [illegible] .(2002) [illegible]
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- [illegible] .(2004) [illegible]
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- [illegible] .(2002) [illegible]
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- [illegible] (2004) [illegible]
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- [illegible] .(2005) [illegible]
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- [illegible] .(1987) [illegible]

- [illegible] .(2002) [illegible]

- [illegible] .(2002) [illegible]

- [illegible] .(2010) [illegible]

- [illegible] .(2011) [illegible]

- [illegible] .(2010) [illegible]

- [illegible] (1994) [illegible]

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- Alfermann D., Lee, M., and WÑrth, S. (2005). Perceived Leadership Behavior and Motivational Climate as Antecedents of Adolescent Athletesĵ Skill Development, journal of sport Psychology, July, Volume 7, Issue 2.

- Kassing, J. & Infante, D. (1999). Aggressive communication in the coach ı athlete relationship, Vol. 16 (2), P 110- 120.

- Paddy, & McComack, (2007). A study Of the leadership and coaching Behaviours of Hi level hurling coaches, ǊǆǊ ƒǋƳƒƜƥƗƨƐ !Ɨ 2012\12\25 ơǐƥƒƗǴ ƖƗƥƗƓǆ.

- Paul R., Ian Y. & Williams A, (2010). An analysis of practice activities and instructionalbehaviours used by youth soccer coaches duringpractice: Exploring the link between science andapplication, Journal of Sports Science, Volume 28, Issue 5, p. 483-495.

- Potrac, P., Jones, R., and Cushion, Ch. (2007). Understanding Power and the Coachĵs Role in Professional English Soccer: A Preliminary Investigation of Coach Behaviour, Soccer and Society, Vol. 8, No. 1, January 2007, pp. 33Ĳ49.

- Womak, R. (1999). Self-perceived style of department chairpersons in baccalaureate and higher degree nursing programs in the mideast, 223, dissertation abstract international.

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YARMOUK UNIVERSITY

جامعة اليرموك

ك.ت.ر/١٠٧/٥٠/ ٢٤١
١١/شعبان/١٤٣٣
٢٠١٢/٧/١

عطوفة اللواء جبريل الرجوب الاكرم
رئيس اللجنة الاولمبية الفلسطينية
رئيس الاتحاد الفلسطيني لكرة القدم

الموضوع: تسهيل مهمة

السلام عليكم ورحمة الله وبركاته،،،

يقوم الطالب انس فوزي احمد عبد الجواد احد طلبة كلية التربية الرياضية في جامعة اليرموك ورقمه الجامعي (٢٠١١٣٨٢٠٠٣) بإعداد رسالة ماجستير في التربية الرياضية وعنوانها:

" سلوك المدرب الفعلي والمفضل من وجهة نظر لاعبي كرة القدم في الضفة الغربية ".

أرجو التكرم بالموافقة والإيعاز لمن يلزم لتسهيل مهمة الطالب المذكور وتمكينه من توزيع الاستبيان الخاص بدراسته على اندية دوري المحترفين لكرة القدم.

شاكرين ومقدرين حسن تعاونكم

وتفضلوا بقبول فائق الاحترام

عميد كلية التربية الرياضية

أ.د. فايز ابو عريضة

Palestine Football Association
Al-Beireh - Palestine



الإتحاد الفلسطيني لكرة القدم
البيرة - فلسطين

اسماء أندية درجة المحترفين وعدد اللاعبين المقيدين رسمياً على كشوفاتها:-

الرقم	اسم النادي	عدد اللاعبين المحترفين
١	جبل المكبر	٢٥
٢	هلال القدس	٢٢
٣	الامعري	٢٤
٤	الظاهرية	٢٥
٥	إسلامي قلقيلية	٢١
٦	مؤسسة البيرة	٢٢
٧	شباب الخليل	٢٥
٨	بلاطه	٢٥
٩	هلال أريحا	٢١
١٠	جنين	٢٠
١١	أهلي الخليل	٢٣
١٢	واد النيص	٢١
	المجمـــــــوع	٢٧٤

دائرة الأندية وشؤون اللاعبين
مدير الدائرة
علي جبريل

٢٠١٢/٩/١٨

Ramallah - P.O.Box: 4373 - Tel.: 02-2959102/3/4 Fax: 02-2959101
رام الله - ص.ب.: ٤٣٧٣ - هاتف: ٢٩٥٩١٠٢/٣/٤-٠٢ فاكس: ٢٩٥٩١٠١-٠٢
e-mail : info@pfa.ps www.pfa.ps

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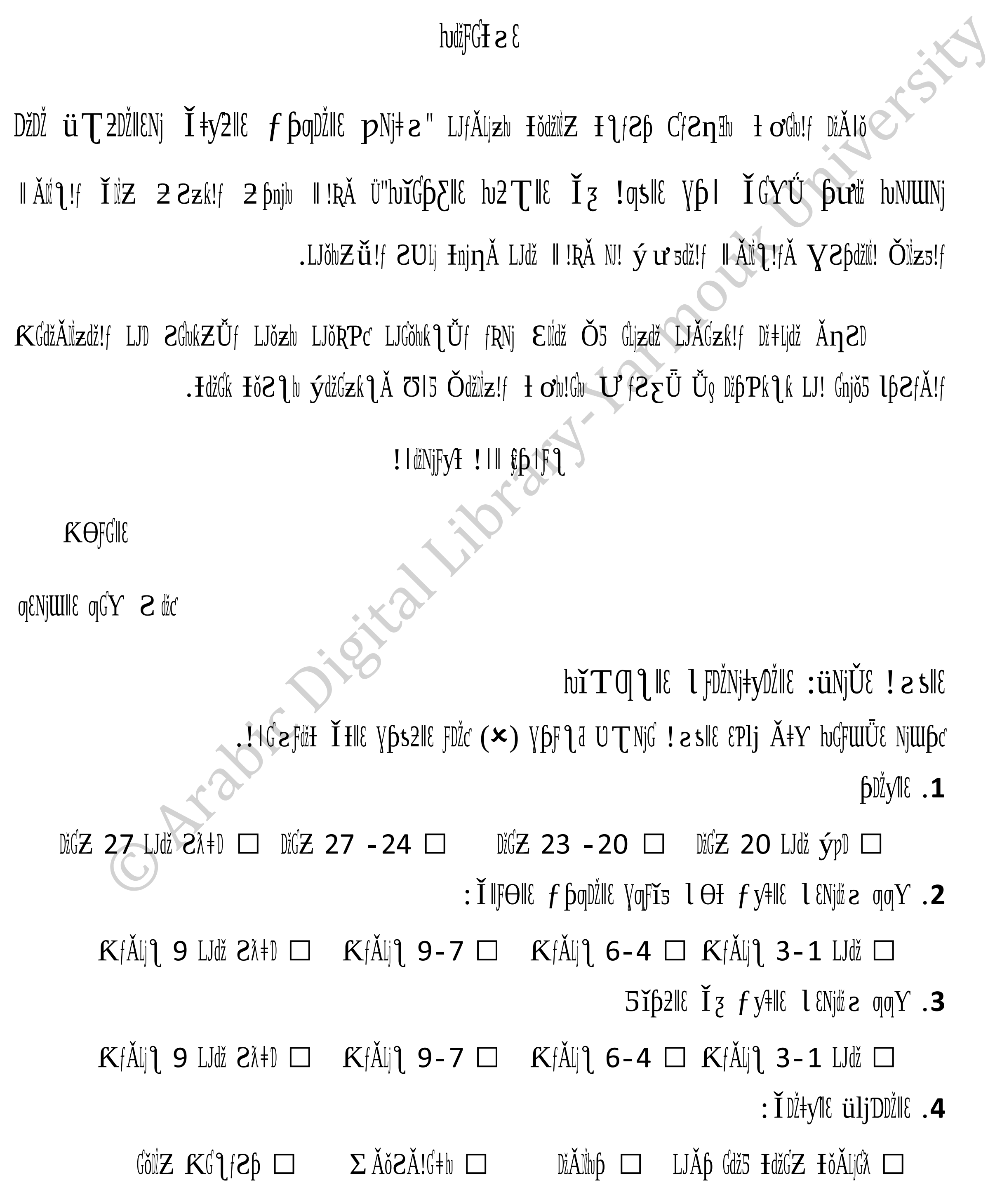
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ƥǋďƥǐǁǃ ƕyďƑǚ

ƕǐƮƑƥǁǃ ƕǐǴƥǂǁǃ ƕǂ!

ƕǐǆƞǴǁǃ ƕǐǴƥǂǁǃ !ƨ5

ƕǆƑǴǂ ƨ ǃ

يقوم الباحث بإجراء دراسة علمية بعنوان **"سلوك المدرب الفعلي والمفضل من وجهة نظر لاعبي كرة القدم في الضفة الغربية"**، وذلك بهدف التعرف على السلوك الفعلي للمدرب والسلوك المفضل له من وجهة نظر اللاعبين.

أرجو منكم التعاون معنا في ملئ هذا الاستبيان آخذين بعين الاعتبار أن المعلومات الواردة فيها لن تستخدم إلا لأغراض البحث العلمي وستعامل بسرية تامة.

شاكراً لكم تعاونكم

الباحث

أنس عبد الجواد

ƕǐƮǋǃǁǃ ǀƑǆǋǂƴǆǁǃ :üǋǗǃ !ƨǁǃ

.!ǀǴƨƑǂ Ǐǂǁǃ ƴƥƨǁǃ !Ƒďǂ (Â) ƴƥƑǃ ƲƮǋǴ !ƨǁǃ ƐǁǇ ĂǂƳ ƕǴƑǚǗǃ ǋǚƥǂ.

1. العمر

☐ أقل من 20 عام ☐ 20-23 عام ☐ 24-27 عام ☐ أكثر من 27 عام

2. عدد سنوات اللعب تحت قيادة المدرب الحالي:

☐ من 1-3 سنوات ☐ 4-6 سنوات ☐ 7-9 سنوات ☐ أكثر من 9 سنوات

3. عدد سنوات اللعب في الفريق:

☐ من 1-3 سنوات ☐ 4-6 سنوات ☐ 7-9 سنوات ☐ أكثر من 9 سنوات

4. المؤهل العلمي:

☐ ثانوية عامة فما دون ☐ دبلوم ☐ بكالوريوس ☐ دراسات عليا

ĸƧƓùŏƙƤƒ 5 ǁƓǉǋĂ .ŎưƓŏƧ!ƒ ƔƧþďž!ƒ ǁĂǁɿ Ɠǌǈ Ƶ Ƭƙŏ ǇƉ ǇǂďžŏŎƙ!ƒ ĸƒƧƓǈƶ!ƒ Ưƶǈ Ŏǁŏ Ɠďžŏ5
.ǐþǈƉ/ǐƧþƓǉ/Ɠǈ!Ɠƺ/ǐďžƑƒþ :Ŏǌ ǀƧƓǈƶ ý‡! ǂǈɿǉ!Ɠǈ

ǂ ùŏơǈ Ɣɿ ƓǉďžŏƑ ǇƓǂďž!ƒ ý5ɿĎĂ ǀƧƓǈƶ!ƒ ƧƓɿŏ Ĭǁƶ (Â) ǂďžǔƶ ýưĂ ýďž ǀƧƓǈƶ ý‡ ǀƓƒƧƿ ƇƓƞƧ!ƒ
.ǋƶďž ƔŏƧþƙǁ! ƟƓƙƧƙ ĭƦ!ƒ ŎưƓŏƧ!ƒ ƔƧþďž!ƒ ǁĂǁɿ! ǁǁŏư5ƙ ýďž ȿǈƱǇŏ

Ǉùƶ ǀƧƓǈƶ ƓǌǉǂǃĂ ƧƤƇ ƔƧþďž ĭƉ ĂƉ Ŏ!Ɠơ!ƒ ǁǈƧþďž! ǐďžŏŏǀƙ ĸɿŏ! ǂďžƑƓǀ!ƒ ǉƦǌ ǇƉ ǀƓƶƒƧďž ƇƓƞƧ!ƒ
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ǉƦùǌ ĂùơǇ ŎƬùƤƬ!ƒ ǁǁŏư5ƙ Ăǌ ƔĂǁƱďž!ƒ Ǉ‡!Ă ÜǂƑƱƓƤ ĸƓǈƓƞƾĂ ǂơŏơƬ ĸƓǈƓƞƾ þƞĂŏ Ů
ȿþƬ .ǂǉƓďžƉĂ ý‡ǈ ĸƒƧƓǈƶ!ƒ

ĬƓþơƉǁ ǋǈǀĭ ǋƇ üƬƺƇ ĬƬƑĭþ ƒƳǘǀ Ƒďžƈ

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					.ǇŏǈƵǔ! ǂŏƬƤƬ!ƒ ǂŏƓƵƧ!Ɠǈ ǅƙǌŏ	8
					.ýƬƒĂƙďž!ƒ þŏƞ!ƒ ƇƒþǕ! ǂƞŏƙǉ‡ ƔƵǔ!ƒ ǀƺƓ‡ďž Ǉďž þ‡ăƙŏ	9
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					Ăƒ ƘǴƵƒƧƮù!ƒ ǴǴùnjLjg ĂD ǂŏĂʅùǩ Ŏƽ ƽŏƧƨ!ƒ ǴǴưƵD þƵǴʅŏ .DžnjLjŏǁ ƘǴƵƨǴǰdž!ƒ	15
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[illegible]

[illegible]

القسم الأول: المعلومات الشخصية

أرجو الإجابة على هذا القسم بوضع إشارة (×) أمام الفقرة التي تناسبكم.

1. العمر

□أقل من 20 عام   □23-2 عام   □27-2 عام   □أك من 27 عام

2. عدد سنوات اللعب تحت قيادة المدرب الحالي:

□من 1-3 سنوات   □4-6 سنوات   □7 سنوات   □أك من 9 سنوات

3. عدد سنوات اللعب في الفريق:

□من 1-3 سنوات   □4-6 سنوات   □7-9 سنوات   □أ ر من 9 سنوات

4. المؤهل العلمي:

□ثانوية عامة فما دون   □دبلوم   □بكالوريوس   □دراسات عليا

[illegible]

[illegible]

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- [illegible]
- [illegible]
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- [illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]						
					[illegible]	1
					[illegible]	2
					[illegible]	3

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4	[illegible]					
5	[illegible]					
6	[illegible]					
7	[illegible]					
8	[illegible]					
9	[illegible]					
10	[illegible]					
[illegible]						
11	[illegible]					
12	[illegible]					
13	[illegible]					
14	[illegible]					
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[illegible]						
16	[illegible]					
17	[illegible]					
18	[illegible]					

ǁǁǀƐƌƴǁƐ :ǓƠƐƥǁƐ ƌƴƠǁƐ						
19	Ǒù5 ǅnjǒùǁƵ ƥǆǩƶǒ ǈǑǭ!ƒ ǈǑǁƵǘ!ƒ ǈǆ ƗƑƱƠƤ!ƒ ƘƠ5ƧƮǩ!ƒ ǈƵ Ǐ ưƠƺǩǒ .ǀƒƧƠǁǆ!ƒ					
20	ƗùƥǘƵ ǋùǁ ǅnjƱǁƧùǩ ǈǑǭ!ƒ ǈǑǁƵǘ!ƒ Ǐ!ƒ ƔǒƧƥǩ!ƒ Ǒ5 ǋǆƠǆǩǋƒ ǋƞǍǒ Ǔ .ƗǒƮƤƬ					
Ǐ ƮƑǏƥǁƐ ƅƐƌǓƐ üǏǋƨƗ : Ƨ ǄƑƇǁƐ ƌƴƠǁƐ						
21	Ɨǀ5ǉ ǏǁƵ ƗǒưƠǒƧ!ƒ ƗƪƧƠǆǆ!ƒ ǇƠǉǅ ǈǑǁƵǘ!ƒ ǈǆ ƔƠƮǒ ǈǆ ƜǘƶǁǅǩǉǑ . ǐƥƠǉ!ƒ					
ǏƯƗƨƗǁƐ ƥǋƗƨǁƐ : Ƨ ƌƑƨǁƐ ƌƴƠǁƐ						
22	.ƔǒƧƥǩ!ƒ ǇƠǉǅ ǈǑǁƵǘ!ƒ ƴǆ ƿƥǒƥƬ					
23	.ƼǒƧ5ǁ! ƗǆǒƨǋǏ ýƗ ƥǉƵ ǈǑǁƵǘ!ƒ ǏǁƵ Ɨǒ!ǍƋƪǆ!ƒ Ǒǀǁǒ					
24	.ƔǒƧƥǩ!ƒ ǇƠǉǅ ǈǑǁƵǘ!ƒ ƴǆ ǋǁǆƠƶǩ Ǒ5 ƗǁƦǋǆ Ƨǒƺ ƠǓƠ5!ǅ ǅƥƤǩƪǒ Ǔ ǐǭ!ƒ					
25	Ǒù5 ƧƮùǀǒ ǈǆ ýƗ Ǐ!ƒ ƔƶǁǆǍ!ƒ ƜƧƠƤ ǈǆ ƗǁƦǋǆ Ƨǒƺ ƠǓƠ5!ǅ ǅƥƤǩƪǒ .ƘƠǒƧƠǁǆ!ƒ ǇƠǉǅ ǋǑǁƵǓ ǈǆ ǇƒƥǕƒ					
ǏƯƐƥƼǅǏǁƐ ƥǋƗƨǁƐ ǋǈ ǁǀƥƑƪǅǁƐ :ƠƑƨǁƐ ƌƴƠǁƐ						
26	.ƔơƧ ƧƥƮǁ Ɨ5!ƠƤǆ!ƒ ǈǑǁƵǘ!ƒ ǇƒƧƈ ýǁǀǩǒ					
27	.ǀƒƧƠǁǆǁ! ƗơƧǩǀǆ!ƒ Ɣƶǁ!ƒ ƗƱƤ Ǒ5 ǋǩƮƥƠǉǆǁ ǈǑǁƵǘ! ƠǆƪǑ					
28	.ƠnjǁǁƴƠǩƥƒ ƒǭ ǈǑǁƵǘ!ƒ ǇƒƧǅǁ ǭƤǆǒ					
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29	.ǈǑǁƵǘ! ƗǒơƮ!ƒ ǑơƒǍǉ!Ơǁ ǅǩnjǒ					
30	ǅnjǩƠùǒơ Ǒù5 ƥǒǆơ!ƒ ǑƥǘƤǕƒ ǁǍǁƪ!Ơǁ ǉǍǁƵǓ ǅƨǩǀǒ ǈǅ ǏǁƵ ƒ Ƨơǒ .ƗǒƮƤƬ!ƒ					

(4) ƼƟǂǅ

!ĭǀƟǂǁǃ ƕǆǁƜǁ

ǅĭǅǅǀƟǅǁǃ ƀƒǅ ƨ ƈ ƕǅǝƑƼ

ƕƴǅƑƜǁǃ	ţ ƬƍǂǁǃƐ	!ǀƟǅǁǃ
ǁ ĂǆƧŏ!ƒ Ɨƺǆǅƞƞƞ	Ǒ ư ǅŏƧ Ɣ ŏƧƥ ǅƵ	ƚ ư ŏƧƵ Ăǆ ƨŏ5 .ƥ .ǅ
ǁ ĂǆƧŏ!ƒ Ɨƺǆǅƞ	Ʃ ŏƧƥ Ɣ ŏ!ƈƪǅ	ƘǅǅƦ ƚƥĂǆơ ƥƵƈƪǆ Ʀƪǅ .ƥ
ǁ ĂǆƧŏ!ƒ Ɨƺǆǅƞ	Ǒ ư ǅŏƧ!ƒ Ʃ ƽǈ!ƒ ǅƵ	ƗǆǅơǇ ǇƨǅǆǍ .ƥ.ǅ
ƗŏǈƥƧǓƒ Ɨƺǆǅƞ!ƒ	Ǒ ư ǅŏƧ!ƒ ƳǆƙƞǓƒ ǅƵ	ƧǌǈǈǇ!ƒ ǅƨơ ƥ.ǅ
ƗŏǈƥƧǓƒ Ɨƺǆǅƞ!ƒ	ƗŏĂŏơ ƈǂŏǈƈǂŏǆ	ǑǈǗŏǂ!ƒ ǅƬǋ ƥ.ǅ
ƗŏǈƥƧǓƒ Ɨƺǆǅƞ!ƒ	ǅƥƥ ƖƧǂ Ɣ ŏƧƥ	Ƨŏǂǅ ƥǆơǆ ƥƵƈƪǆ Ʀƪǅ .ƥ
ƗŏǈƱĂ!ƒ ƟǅƞǈǇ!ƒ Ɨƺǆǅƞ	Ǒ ư ǅŏƧ Ɣ ŏƧƥ	ƽơ!ƒ ƥƵ ƥǆƵ ƥ.ǅ
ǁ ĂǆƧŏ!ƒ Ɨƺǆǅƞ	ƥŏ!ƒ ƖƧǂ ǅƺƙĂ Ɣ ŏƧƥ ƘŏƧƱǈ	ƗǈĂƈƮƤ ýǆǂ .ƥ

Abstract

Abd Al Jawwad, Anas Fawzi The actual and preferred Behavior of coach From View Point of Football Players in West Bank 2013

Supervisor D. Nabiel Shamrookh

The aim of the study was to recognize the actual and preferred behavior of coaches from the view point of football players in west-bank. The study sample included 269 football players representing difficult clubs.Data was collected through the use of a questionnaire which includes two section: the preferred behavior of a coach with (21) items divided in to (5) subscales and the actual behavior of a coach within (30) items divided in to (8) subscales. Descriptive statistics were used as well as mean, standard deviation, ANOVA , MANOVA, percentage and schelle. The results showed that is a high level of importance for the preferred coach and actual behavior from the viewpoint of the football players in the West Bank, in addition to that the study concluded that there is no statistical differences when taking the following variables under consideration (age, number of playing years under the current coach, number of playing years in the team, qualification), one of the most important recommendations is the need to facilitate opportunities for coaches to attend courses outside the country, whether at the content or the global level, and the importance for sports clubs to sign contract with qualified coaches who can lead the team.

Keywords: Behavior, preferred behavior, actual behavior.